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Monogonont Rotifera recorded in the World literature (except Africa) from 1960 to 1992

Abstract

This publication is a compilation of distribution records of monogonont Rotifera, as in the literature published between January 1, 1960 and December 31, 1992. Records are listed alphabetically by species and by biogeographical region. Only the Ethiopian region has not been considered here, the results thereof have been published in previous papers.

Key words: Rotifera - distribution - zoogeography

Samenvatting

Voorliggende publicatie is een compilatie van meldingen van monogononte raderdieren (Rotifera), gebaseerd op literatuurgegevens gepubliceerd tussen 1 januari 1960 en 31 december 1992. De meldingen zijn alfabetisch per soort, en per biogeografische regio geordend. Enkel meldingen van de Ethiopische regio werden niet opgenomen, daar deze gegevens reeds gepubliceerd zijn.

Trefwoorden: Rotifera - verspreiding - zoögeografie

Résumé:

Cette publication propose une compilation des données de distribution des rotifères monogonontes parues dans la littérature depuis le 1^{er} janvier 1960 jusqu'au 31 décembre 1992. La présentation des données se rapportant tant aux espèces qu'aux régions biogéographiques suit l'ordre alphabétique. Seule la région Éthiopienne n'a pas été prise en compte dans la présente compilation, dans la mesure où les résultats la concernant ont été publiés ailleurs.

Mots clés: Rotifera - distribution - zoogéographie

INTRODUCTION

In this paper we present a compilation of the records of monogonont Rotifers in six zoogeographical regions, viz. Palaearctic, Nearctic, Oriental, Australian, Neotropical and Antarctic. The Ethiopian region has not been included, as it was previously treated by the senior author in the "Annotated checklist of non-marine Rotifers (rotifera) from African inland waters", published as "Zoologische Documentatie 21" by the "Koninklijk Museum voor Midden-Afrika", Tervuren, Belgium, in 1987. That text was supplemented by "Additions to the Annotated Checklist ..." in *Revue d'Hydrobiologie tropicale*, **24** (1): 25-46, 1991. "Additions II" were published in the "Biologisch Jaarboek Dodonaea, 1993". (**61** : 99-153). Hence, with the exception of one zoogeographical region, records of Rotifera on a world-wide scale are presented, after all the publications that could be traced by the authors. Because of the large numbers of publications on Rotifers, we have limited our excerpts to papers, published between 1960 and 1992, and, of course, to those that provide distributional records. We are aware that our compilation is incomplete, considering the abundance and scatter of publications dealing with Rotifera.

As rotifers form a large group of small animals living in the plankton and benthos of fresh and brackish waters, but also in litter and in some soils, they play an important part in natural food webs. Therefore, and also out of biogeographical interest, it is important to know where these study objects have been found and which scale of extremes of natural conditions they are able to support.

Species are listed in alphabetical order, subspecies and formae (when appropriate) are cited after the species itself. We emphasize that no taxonomic or nomenclatural significance should be drawn from the inclusion, or use in a given combination of any available or unavailable name in this work: names are after the work of Koste (1978), or as in the publication in which a name is recorded. Moreover, caution is advised in the interpretation of the data presented here, considering that most of these concern unverifiable records.

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Anchitestudinella Bērziņš, 1973

Anchitestudinella mekongensis Bērziņš, 1973

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1990)
- Oriental region: Cambodia (Bērziņš, 1973a; Sudzuki, 1989)

Anchitestudinella spec.

- Palaearctic region: ? Southwest islands of Japan (Sudzuki *et al.*, 1992)

Ascomorpha Perty, 1850

Ascomorpha agilis Zacharias, 1893

- Palaearctic region: C & S Sweden (Bērziņš & Pejler, 1989a, 1989c, 1989d); Romania (Rudescu, 1960); Peat bogs in the "Massif Central", France (Batut, 1965); Italy, Alps, W & C Eur. mountains, Pontic province, W & C Eur. plains (Bērziņš, 1978); Lake Wallsee & r. Lobau, Austrian Danube (Donner, 1978); River Salzach & its tributaries, Austria (Donner, 1970); Pelagic zone of Lake Nobel, Ukraina (Polishchuk, 1991); Nat. Res. "Oisterwijkse vennen", NL (De Graaf, 1960; Dresscher, 1976); R. Samber in Merbes-le-Chateau (B) and Hachette (Fr) (Waeyaert, 1972); Serbian section of r. Danube (Zivkovic, 1987); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973)

Ascomorpha agilis Zacharias, f. *americana* de Beauchamp, 1932

- Nearctic region: Northern Michigan inland lakes, USA (Stemberger, 1990)

Ascomorpha ecaudis Perty, 1850

- Palaearctic region: Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Lakes in C Sweden (Pejler, 1964); Lac d' Annecy, Fr. (Balvay & Druart, 1992); Pool "Mare à Piat", Fontainebleau forest, Fr. (Pourriot, 1976); Black Sea (Rudescu, 1961); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Gemündener Maar, Weinfelder M. & Pulvermaar, Eifel, Germany (Oehms & Seitz, 1992); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Etang de Vaugien, Gif-s-Yvette, Essonne, Fr.; Etang de la Tour, Ile-de-France; Peat bog Grandvaux, near Brinon-sur-Souldre, *ibid.* (Pourriot, 1965); Aegean lakes, Macedonia, ex-Yugosl. & Greece (Serafimova-Hadzisce, 1974); Tarn in Värmland, Sweden (Thomasson, 1970); Serbian section of r. Danube (Zivkovic, 1987); Lake Stechlin, Germany (Ronneberger & Schönborn, 1985); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-73); Impoundment Twistetalsperre, N Hessen, Germany (Meinel *et al.*, 1983); Karelian inland waters, R.F. (Kutikova, 1965); L. Mälaren, Sweden (Grönberg, 1975); L. Alfsee, NW Germany (Koste & Poltz, 1987); L. Léman, Fr./CH (Balvay & Laurent, 1974 & 1981); Loch Rusky, Scotland (Romo, 1990); Lac d' Aydat, Massif Central, Fr. (Oulad Ali *et al.*, 1990); Volga River, R.F. (V'yushkova & Lakhnova, 1974); Small rivers, tributary to Kiev reserv., R.F. (Polishchuk, 1987); All over Europe. Caucasus, Caspian area. Cosm. (Bērziņš, 1978); Inundation area of Danube delta, Rom. (Dorobantu, 1964); River Grabia basin, Poland (Pawlowski, 1960 & 1970); L. Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Small lakes SE of Gothenburg, W Sweden (Morling & Pejler, 1990); Romania (Rudescu, 1960); L. Glubokoe, near Moscow, R.F. (Matveeva, 1986 & 1991); In acid ponds in Lower Austria (Wawrik, 1972); Lakes in the Kuokkel area, N Swedish Lapland (Persson, 1978); Dübener Heide, Germany (Wulfert, 1960b & 1961); Lake Wallsee & r. Lobau, Austrian Danube (Donner, 1978); Hudsons Bay & Hoveton Great Broad, East Anglia, UK (Timms & Moss, 1984); Lake Lauerzersee, CH (Odermatt, 1970); Etang de Pommereau (Loir-et-Cher) Fr. (Tassigny *et al.*, 1970); Ponds in Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Brabantse Biesbosch & Nat. Res. "Oisterwijkse vennen", NL (Dresscher, 1976); Lembeek, Belgium (De Ridder, 1986); L. Neujahrsloch, Hessen, Germany (Menzel, 1968); R. Danube (Enaceanu & Brezeanu, 1970); Ellesmere district, UK (Galliford, 1960a) Nat. Res. "Oisterwijkse vennen", NL (De Graaf, 1960); Impoundment Weidatalsperre, E Thuringen, G. (Hoffmann, 1966); Lake Baikal, R.F. (Kozhov, 1963); L. Victoria, Oltenia region, Romania (Marx *et al.*, 1967); Luga District of the Leningrad area, R.F. (Kutikova, 1962b); Lakes Aydat & Chambon, Puy de Dôme, Fr. (Persoone *et al.*, 1968); Spain: Huesca (Velasco, 1990); Forest pond in Lembeek, B. (Van Elslande, 1975); Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983); Slovenia, ex-Yugoslavia (Markic, 1983); Sweden (Bērziņš & Pejler, 1987, 1989a); Königssee, Bavaria, Germany (Laxhuber, 1987); District Ostrava, CSR (Dvorakova, 1960b); Lake Balaton, Hungary (Zankai, 1989); L. Stechlinsee & L. Nehmitzsee, Germany (Kasprzak & Ronneberger, 1982); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); L. Mikolajskie & L. Sniardwy, *id. ibid.* (Kosicki, 1960); N. Swedish Lapland (Pejler, 1962a); C & S Sweden (Bērziņš & Pejler, 1989b, 1989c & 1989d); Blelham Tarn, Cumbria, UK (Ferguson *et al.*, 1982); Waters in S Sweden (Arnemo *et al.*, 1968); Lake Lunzer Obersee, Austria (Ruttner-Kolisko,

1977; Pivoda, 1977; Mikschi, 1989); L. Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963); Talsperre Saidenbach, Germany (Althaus, 1976); Lago Scuro Parmense, N Italy (Antonietti *et al.*, 1988); Small Lake in S Sweden (Stenson, 1982); Grasmere Lake, Lake District, UK (Elliott, 1977); Lake Numasawa, Japan (Sudzuki *et al.*, 1989); Central Sweden, (Pejler, 1972); Peat bogs in the "Massif central", Fr. (Batut, 1965); Lake Zürichsee, CH (Nipkow, 1961)

- Nearctic region: Grizzly Lake, W North America (Thomasson, 1962); Acid Lakes in Maine, USA (Brett, 1989); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Wisconsin & Kentucky, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Newfoundland & Labrador, NE Canada (Chengalath & Koste, 1983); Pools and lakes near Hanover, Hampshire, USA (Gilbert, 1988); Canada (Chengalath, 1977); Lake Michigan, USA (Stemberger, 1985); Star Lake, Norwich, Vermont, USA (Stemberger, 1987); ? Lake Michigan, USA (Sandgren & Lehman, 1990); Lake 382, exp. lake area, NW Ontario, Can. (Malley & Chang, 1991); Northern Michigan inland lakes (Stemberger, 1990); Greens Lake, Beaver Island, Michigan, USA (Foran & King, 1982); Wabamun Lake, Alberta, Canada (Gallup & Hickman, 1975); Mt. Tremblant prov. park, Québec, Canada (Nogrady, 1980); Triangle Lake, Portage County, Ohio, USA (Havens, 1991); Laurentian Great Lakes (Stemberger, 1979); Adirondack lakes, NY State, USA (Siegfried *et al.*, 1984); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Crater Lake & Walker Lake, Arizona, USA (Green, 1989)

- Oriental region: Girikbe Tank, Sri Lanka (Bērziņš, 1982a); India (Sharma & Michael, 1980); Singapore (Karunakaran & Johnson, 1980); Singapore, Indonesia, India (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Kashmir Valley, India (Zutshi *et al.*, 1980); Impoundment Kinda, C Burma (Koste & Böttger, 1992)

- Australian region: NSW and Qld, Aust. (Shiel & Koste, 1979); Lower Murray river, S Aust. (Shiel, Walker & Williams, 1982); NT, Aust.: Magela Creek (Koste, 1981b); Alligator Rivers region, NT, Aust. (Tait, Shiel & Koste, 1984)

- Neotropical region: River Parana, Argentina (José de Paggi, 1985); Ecuador: Oriente (Koste & Böttger, 1989); Lago de Macaco, Brazil; Amazonia, Brazil. Besides: Java, N America (Koste, 1989a); Europe, Asian part of R.F. (Kazakhstan, L. Baikal) (Koste, 1972f); Brazil, Argentina, Surinam, Panama (Koste & J. de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy 1984); Rio Nhamunda, Brazil (Brandorff, Koste & Smirnov, 1982); Near Concepcion, Paraguay (Koste, 1986b); Prov. Santa Fé, Argentina (José de Paggi, 1990); Rio Negro & Lago do Castanho, Am., Brazil (Schaden, 1977c); Amazonia, Brazil (Thomasson, 1971; Hauer, 1965b); Brokopondo Lake, Surinam (Leentvaar, 1979); Mato Grosso, Brazil (Turner & Da Silva, 1992); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b); Oriente, Ecuador (Koste & Böttger, 1992)

Ascomorpha minima von Hofsten, 1909

- Palaearctic region: Romania (Rudescu, 1960); Talsperren Saidenbach & Neunzehnhain, Germany (Althaus, 1976); Alps, C Eur. Mountains, Carpathes, C & E Eur. plains (Bērziņš, 1978); Moorland Mästermyr, Gotland, Sweden; R.F., USA, Romania (Sladeczek, 1961); Fishpond Zelun, Cidlina r., E Bohemia, CSR (Sladeczek, 1961); Dead branch Latorica, E Slow. Lowland, CSR (Terek, 1990a); Soviet section of the Danube, R.F. (Parchuk, 1985); ? Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lake Zürichsee, CH (Nipkow, 1961); ? 3 Lakes of Sosnowickie, Poland (Radwan, 1966 & 1969); ? Parczew region peat bogs, Poland (Radwan, 1974); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)

- Nearctic region: Wabamun lake, Alberta, Canada (Gallup & Hickman, 1975); L. Oglethorpe, NE Georgia, USA (Orcutt & Pace, 1984); San Francisco, USA (Nogrady, 1983)

Ascomorpha ovalis (Bergendal, 1892)

- Palaearctic region: L. Stechlinsee, N. Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); L. Mikolajskie, Mazurian lakeland, Poland (Hillbricht-Ilkowska *et al.*, 1975); S Coast, Finland (Eriksen, 1969); Lake Buchsee, Bodensee (Einsle, 1966); L. Bracciano & L. Vico, C Italy (Ferrari, 1972); L. Mikolajskie & L. Taltowisko, Maz. Lakel., Pol. (Klimowicz, 1974); L. Mikolajskie & L. Sniardwy, Maz. Lakel., Pol. (Kosicki, 1960); L. Kisajno, Maz. Lakel., Pol. (Klimowicz, 1964); Lake Bielersee, CH (Berner-Fankhauser, 1986); Small lake in SW Sweden (Stenson, 1982); Tingwall Loch, Mainland, Shetland (Bērziņš, 1982a); Reservoirs in Spain (Guiset, 1977); Lakes in the Spanish Pyrenees (Miracle, 1981); High mountain lakes, id. (Miracle, 1982); Lagunillongo, near Cuenca, Spain (Miracle & Vicente, 1983); Pyrenees, Spain (Morales-Baquero, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); Lake Königssee, Bavaria (Laxhuber, 1987); C Finland (Eloranta, 1982b); L. Stechlinsee & L. Nehmitzsee, Germany (Kasprzak & Ronneberger, 1982); Pyrenean lakes, Spain (Miracle, 1978); Lakes C Sweden (Pejler, 1964 & 1965); Anatolia, Turkey (Emir, 1989); Lake Maggiore, Italy (Tonolli, 1962); Lake Sempachersee, CH (Zimmermann, 1974); L. Darnsee near Epe, NW Germany (Koste, 1962); Achmer

Grasmoor, NW Germany (Koste, 1968b); Lake Mälaren, Sweden (Grönberg, 1975); Lac Léman, Fr./ CH (Martin, 1961; Balvay, 1989; Balvay & Laurent, 1981, 1989, 1990 a & 1990b (Naef & Martin, 1985); Karelian inland waters (Kutikova, 1965); Ponds of Oltina, SE of Dobrogea, Rom. (Popescu-Gorj & Costea, 1961); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Lakes in the Leczna-Wlodawa region, Poland (Radwan, 1976); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Etang de Coupe-Gorge, near Rambouillet, Yvelines, Fr.; petite mare en forêt de Chevreuse, *ibid.*; peat bog Grandvaux, near Brinon s/Sauldre, *ibid.* (Pourriot, 1987); L. Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Serbian section of r. Danube (Zivkovic, 1987); All over Spain (Velasco, 1990); Lake Biwa-Ko, Japan (Yamamoto, 1960b); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/73); Lake Mikolajskie, Poland (Ejsmont-Karabin, 1974); Lac d' Annecy, Fr. (Balvay & Druart, 1992); Romania (Rudescu, 1960); Lake Numasawa, Japan (Sudzuki *et al.*, 1989); Koyama-Ike, coastal pond in Japan (Sudzuki & Fukuta, 1989); Lake Alfsee, NW Germany (Koste & Poltz, 1987); 12 mountain lakes, high in the Himalaya (Vass *et al.*, 1989); Mares à Sphaignes en Sologne, Fr. (de Beauchamp & Pourriot, 1961); Small rivers, tributary to Kiev Reservoir, R.F. (Polishchuk, 1987); Volga river, R.F. (V'yushkova & Lakhnova, 1974); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Lake Ladoga, R.F. (Nikolayev & Petrova, 1978); All over Europe (Bērziņš, 1978); Small lakes SE of Gothenburg, W Sweden (Morling & Pejler, 1990); Lake Myvatn, Iceland (De Ridder, 1970); N and W Iceland (De Ridder, 1972); Gelendost, C Anatolia, Turkey (Emir, 1989); Leczna-Wlodawa Lake District, E Poland (Kowalczyk & Radwan, 1982; Radwan, 1984); Southwest islands of Japan (Sudzuki *et al.*, 1992); Dübener Heide, N Germany (Wulfert, 1960a, 1960b, 1961); Japanese inland waters (Yamamoto, 1960a); Lake Lauerzersee, CH (Odermatt, 1970); Lac de Nantua, Ain, Fr. (Balvay, 1985); Highly dystrophic lake Smolak, Poland (Brinska *et al.*, 1976); Nat. Res. "Oisterwijkse vennen", NL (De Graaf, 1960); R. Maas, Rijn, Waal & Yssel; nat. res. "Oisterwijkse vennen"; pond Brouwerskolkje in Overveen, NL (Dresscher, 1976); SW Iceland (De Ridder, 1966a); L. Constance, Germany (Walz *et al.*, 1987); R. Danube (Enaceanu & Brezeanu, 1970); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Lake Zürichsee, CH (Nipkow, 1961); Luga district of the Leningrad area, R.F. (Kutikova, 1962b)

- Nearctic region: Canada (Chengalath, 1977); Ontario, Canada (Chengalath & Fernando, 1975); L. Michigan & Milwaukee Harbor, USA (Stemberger, 1974); 3 Lakes in N Carolina (Lemly & Dimmick, 1982); Cap Breton Island, Nova Scotia, Can. (Chengalath & Koste, 1988); River Ocqueoc, Michigan, USA (Beach, 1960); Wisconsin, USA (Bērziņš, 1984); Hellertown res., Northampton Co., Pa., USA (Williamson *et al.*, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Ontario, Canada (Chengalath *et al.*, 1971); Lake 382, exp. lake area, NW Ontario, Can. (Malley & Chang, 1991); Northern Michigan inland lakes (Stemberger, 1990); Laurentian Great Lakes (Stemberger, 1979); L. Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Lake Ontario, Canada (Nauwerck, 1978); Bay of Quinte, L. Ontario, Can. (Nogrady, 1988); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); L. Hodges, San Diego County, California, USA (Nogrady, 1983); Carter Lake, N Colorado, USA (Thomasson, 1964b); Lake 122, NW Ontario, Canada (Schindler & Novén, 1971)

- Oriental region: Singapore (Karunakaran & Johnson, 1978); Singapore & Indonesia (Sudzuki, 1989); Thailand (Boonsom, 1984b)

- Australian region: NSW & Qld, Aust. (Shiel & Koste, 1979); NT, Aust.: Magela Creek region (Koste, 1981b); Tasmania (Koste & Shiel, 1986b); Alligator rivers region, NT, Aust. (Tait, Shiel & Koste, 1984); Sidney reservoirs, NSW, Aust. (Thomasson, 1973)

- Neotropical region: Lago do Macaco, Brazil (Koste, 1989a); Amazonia, Brazil (Koste, 1972f; Thomasson, 1971); Brazil (Koste & José de Paggi, 1982); Lake Llanquihuc, Chile (Campos *et al.*, 1988); Chilean lakes (Schmid-Araya, 1991); Caribbean part of the Neotrop. region (De Ridder, 1977); Caribbean islands (Collado *et al.*, 1984); Brokopondo lake, Surinam (Leentvaar, 1979); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Ascomorpha ovalis (Bergendal), f. *klementi* (Hauer, 1965)

- Palaearctic region: Southwest islands of Japan (Sudzuki, *et al.*, 1992)

- Neotropical region: Brazil (Hauer, 1965a; Hauer, 1965b; Koste, 1972f; Koste & José de Paggi, 1982); Lago do Macaco, Brazil (Koste, 1989a); Rio Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Prov. Santa Fé, Argentina (José de Paggi, 1990); Parana Medio river environment, Arg. (José de Paggi, 1982)

Ascomorpha saltans Bartsch, 1870

- Palaearctic region: All over Europe (Bērziņš, 1978); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Talsperre Neunzehnhain, Germany (Althaus, 1976); Saidenbach Talsperre, Erzgebirge, Germany (Beuschold, 1961); Lakes S Sweden (Arnemo *et al.*, 1968); Lake Bielersee, CH (Baugerter *et al.*, 1980; Berner-Fankhauser, 1983 & 1986); Lake Kinneret, N Israel (Berman *et al.*, 1972); River Ybbarsån, Sweden (Bērziņš, 1979); Grasmere Lake, Lake District, UK (Elliott, 1977); 2 lakes

N Sweden (Axelson, 1961); Tingwall Loch, Mainland, Shetland (Bērziņš, 1982a); Lake Kinneret, Israel (Landau *et al.*, 1988); Finland (Eriksen, 1969); Lake Numasawa, Japan (Sudzuki *et al.*, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); Lake Königssee, Bavaria (Laxhuber, 1987); Buchseen, Bodensee (Einsle, 1966); Mindelsee, Bodensee (Einsle, 1967); C Finland (Eloranta, 1982b); Lake Balaton, Hungary (Zankai, 1989); L. Stechlinsee & L. Nehmitzsee, Germany (Kasprzak & Ronneberger, 1982); Impoundment Kninicki, CSR (Kubicek, 1964); Lakes C Sweden (Pejler, 1965); Romania (Rudescu, 1960); Anatolia, Turkey (Emir, 1989); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Lake Sempachersee, CH (Zimmermann, 1974); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); River Hase, NW Germany (Koste, 1976b); Lake Mälaren, Sweden (Grönberg, 1975); Delta of r. Danube, Romania (Zinevici & Teodorescu, 1990); Lac Léman, Fr. /CH (Balvay, 1969; Balvay & Laurent, 1981, 1989, 1990a & 1990b; Naef & Martin, 1985); Lake Erken, Sweden (Blomquist & Pejler 1980); L. Groszer Binnensee, Baltic coast, Germ. (Lampert & Rothhaupt, 1991); Camargue, S France (De Ridder, 1960a & 1961); N and W Iceland (De Ridder, 1970 & 1972); Karatas Lake, W Anatolia, Turkey (Emir, 1989); Lake Glubokoe, near Moscow, R.F. (Matveeva, 1986 & 1991); Leczna-Wlodawa Lake District, Poland (Kowalczyk & Radwan, 1982; Radwan, 1964); Southwest islands of Japan (Sudzuki *et al.*, 1992); Dübener Heide, N Germany (Wulfert, 1960b, 1961); Lac de Nantua, Ain, France (Balvay, 1985); Lake Wallsee & river Lobau, Danube basin, Austrian (Donner, 1978); Lakes in NE Norway (Saeter, 1971); L. Tüzer See, Neubrandenburg, Germany (Doll, 1984); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); De Ooypolder; pool "Vechten" near Utrecht, NL (Dresscher, 1976); Saltmarsh Puerto de Pollensa, Majorca, Spain (De Ridder, 1967c); Brackish waters, Lorraine orientale, Fr. (De Ridder, 1969a); Budir & Surrounding, Iceland (De Ridder, 1969b); Lake Constance, Germany (Walz *et al.*, 1987); R. Danube (Enaceanu & Brezeanu, 1970); Peat bogs in the Auvergne, Fr (Francez, 1981); Lake Zürichsee, CH (Nipkow, 1961); Lake Erken, Sweden (Nauwerck, 1963); L. Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Lakes in C Sweden (Pejler, 1964); Lac d' Annecy, France (Balvay & Druart, 1992); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Etang de la Tour, Ile-de-France, Peat bog Cérisaie, near Poigny, *ibid.*, Fr. (Pourriot, 1965); Lake Doiran, Macedonia, ex-Yugosl. (Popovska-Stankovic, 1990); Serbian section of r. Danube (Zivkovic, 1987); Spain: Huelva, Huesca, Sevilla (Velasco, 1990); Lake Kinneret, Israel (Serruya & Pollinger, 1984); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/73); Lake Laacher See, Eifel, Germany (Eckartz-Nolden & Nolden, 1992); River Grabia basin, Poland (Pawlowski, 1960 & 1970); Lake Balaton, Hungary (Zankai, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Handzame Canal, Diksmuide, Belgium (De Ridder, 1960b)

- Nearctic region: Newfoundland & Labrador, NE Canada (Chengalath & Koste, 1983); Illinois River, USA (Brown *et al.*, 1989); 3 lakes in N Carolina, USA (Lemly & Dimmick, 1982); Wisconsin & Illinois, USA (Bērziņš, 1984); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Northern Michigan inland lakes, USA (Stemberger, 1990); Laurentian Great Lakes (Stemberger, 1979); L. Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Lakes at Santee, California, USA (Nogrady, 1982); Bay of Quinte (L. Ontario), Canada (Nogrady, 1988); ? Lake 122 & L. 132, NW Ontario, Canada (Schindler & Novén, 1971)

- Oriental region: Girikbe-Tank, Sri Lanka (Bērziņš, 1982a); Singapore (Karunakaran & Johnson, 1978); Taiwan (Sudzuki, 1988); Taiwan, Singapore, India (Sudzuki, 1989); Fishpond at Barrackpore, W Bengal, India (Michael, 1968); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); Impoundment Kinda, C Burma (Koste & Tobias 1990); Dar Lake, Kashmir Himalaya L., India (Vass & Zutshi, 1983)

- Australian region: SW Aust. (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); ? Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); Sheepwash billabongs near Molesworth, Vic (Shiel, 1983); Rivers & pool, Aust. (Bērziņš, 1982); NSW, Aust. (Koste & Shiel, 1980c); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Sidney reservoir, NSW, Aust. (Thomasson, 1973)

- Neotropical region: Surinam (Leentvaar, 1975); Saladillo river basin, Argentina (José de Paggi & Koste, 1988); Ecuador: Oriente (Koste & Böttger, 1989); Orinoco river basin, Venezuela (Vasquez, 1984a); Peru, Argentina, Surinam, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste, Roberson & Hardy 1984); Near Concepcion, Paraguay (Koste, 1986b); L. Escondido, prov. Rio Negro, Argentina (Balseiro & Modenutti, 1990); Prov. Rio Negro, Neuquen, San Juan & Santa Fé, Arg. (José de Paggi, 1990); Caribbean part of the Neotropical region (De Ridder, 1977); Caribbean Islands (Collado *et al.*, 1984); Lago Jobera, Orinoco floodplain Lake, Ven. (Vasquez & Rey, 1992); Brokopondo Lake, Surinam (Leentvaar, 1979); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b); Mato Grosso, Brazil (Turner & Da Silva, 1992); Lake Masaya, Nicaragua (Moreno *et al.*, 1992); Oriente & Sierra, Ecuador (Koste & Böttger, 1992)

Ascomorpha saltans Bartsch, f. *indica* Wulfert, 1966

- Palaeartic region: Southwest Islands of Japan (Sudzuki *et al.*, 1992); Coastal Prefectures Tottori &

Shimane-Ken, Japan (Sudzuki & Fukuta, 1992)

- Oriental region: Singapore, Indonesia, India (Sudzuki, 1989); India (Sharma & Michael, 1980); Singapore & Taiwan; Distr. of India (Sudzuki, 1991); Ajwa Res., near Baroda, Gujarat, W India (Wulfert, 1966; Jayangaudar, 1980); Prata-pura reservoir, *ibid.* + Installations of the Nimeta waterworks, *ibid.* (Wulfert, 1966)

- Australian region: Lake Barracoota, Vic, Aust. (Bērziņš, 1982); Vic. Aust. (Shiel & Koste, 1985)

Ascomorpha spec.

- Palaearctic region: L. Hecklan, C Sweden (Olsson *et al.*, 1992); Lower course of Sambre river, Belgium (Dumont & Van Vossel, 1973); R. Loire, France (Lair *et al.*, 1978); Lago Scuro Parmense, N Italy (Antonietti *et al.*, 1988); Impoundment Kninicky, CSR (Kubicek, 1964); Lago Maggiore, Italy (Tonolli, 1962); Norfolk Broads, UK (Irvine *et al.*, 1990); Sava Lake, Yugoslavia (Kalafatic, 1964); Loosdrecht Lakes, NL (Van Tongeren *et al.*, 1992); Lac Léman, Fr./CH (Naef & Martin, 1985); ? Lac Léman, Fr./CH (Rougier, 1969); Middle course of r. Loire, France (Lair & Sargos, 1981); Lago Trasimeno, Italy (Taticchi, 1968)

- Nearctic region: Mirror Lake, New Hampshire, USA (Strayer, 1985); Sacramento-San Joaquin delta est., USA (Siegfried & Kopache, 1980); Little Rock Lake, Wisconsin, USA (Frost & Montz, 1988); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Desaulniers Reservoir, Québec, Can. (Pinel-Alloul *et al.*, 1982); Swan Lake near Sudbury, Ontario, Can. (Yan & Geiling, 1985); NW Colorado, USA (Cauton & Ward, 1981); L. Oglethorpe, Georgia, USA (Pace & Gilbert, 1970); Mirror Lake, New Hampshire, USA (Likens & Gilbert, 1970); Silver Lake, Adirondack Mts., NY State (Siegfried, 1991)

- Oriental region: Ponds in Chinglepat, Madras, India (Sreenivasan, 1968); Dar Lake, Kashmir Himalayan L., India (Vass & Zutshi, 1983); Sunda Lakes (Serruya & Pollingher, 1984); Thailand (Sudzuki, 1989); Bung-Borapet, C Thailand (Koste, 1975a); Ricefields in NE Thailand (Heckman, 1979); Lake Manguao, Palawan, The Philippines (Davies & Green, 1990)

- Australian region: River in Aust. (Bērziņš, 1982); S Aust. (Arcifa, 1984); L. Grasmere, South Island of New Zealand (Stout, 1991); L. Pukali, South Island of New Zealand (Stout, 1978); L. Grasmere & L. Pearson, *ibid.* (Stout, 1984)

- Neotropical region: Bolivian part of Lake Titicaca (Pinto, 1992); Rapelreservoir, C Chile (Soto *et al.*, 1984); River Parana, Argentina (José de Paggi, 1978a); River Santa Fé, Argentina (José de Paggi, 1976b); Argentina (Modenutti & Claps, 1988); Lake Todos los Santos, Chile (Campos *et al.*, 1990); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971)

Ascomorphella Wiszniewski, 1953

Ascomorphella volvocicola (Plate, 1886)

- Palaearctic region: C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); Romania (Rudescu, 1960); Pools of r. Elbe, CSR (Dvorakova, 1961); Spain, Pyrenees, Italy, Alps, W & C Eur. mountains, Carpathes, Hungary, Pontic province, W, C & E Eur. plains, Baltic prov., Ireland, UK, Iceland, Boreal highland, NW Russian taiga (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960); Volga river, R.F. (V'yushkova & Lakhnova, 1974); Dübener Heide, N Germany (Wulfert, 1960b); Karelian inland waters, R.F. (Kutikova, 1965); Serbian section of river Danube (Zivkovic, 1987)

- Nearctic region: Wisconsin, USA (Bērziņš, 1984); L. Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: Girikbe-Tank, Sri Lanka (Bērziņš, 1982a)

- Australian region: Reservoirs SE Aust. (Shiel *et al.*, 1987); Vic. Aust. (Koste & Shiel, 1980c); Murray river, S Aust (Shiel & Walker, *s.d.*); Billabongs in the r. Murray floodplain, NSW, Aust. (Hillman & Shiel, 1991); Widespread in E Aust. (Eur., N Amer. & N Zeal.) (Shiel & Koste, 1992); Christchurch, New Zealand (Russell, 1960)

Aspelta Harring & Myers, 1928

Aspelta alastor (Harring & Myers, 1928)

- Palaearctic & Nearctic regions: C Eur. plains & N America (Bērziņš, 1978)

Aspelta angusta Harring & Myers, 1928

- Palaearctic region: Lake Stråken in Aneboda, Sweden (Bērziņš, 1972); C & S Sweden (Bērziņš & Pejler, 1987); C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978); Cap Breton Island, Nova Scotia, Can. (Chengalath & Koste, 1988)

Aspelta aper (Harring, 1913)

- Palaearctic region: Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); ? S coast of Finland (Eriksen, 1969); S & C Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); Italy, C Eur. mountains & plains, Baltic province, Boreal highland, NW Russian Taiga (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1961); L. Wallsee & R. Lobau, Austrian Danube basin (Donner, 1978); Nat. Res. "Oisterwijkse vennen", NL (De Graaf, 1960; Dresscher, 1976); Peat bog Chambedaze, Puy-de-Dôme, Fr. (Francez, 1982)
- Nearctic region: N America (Bērziņš, 1978); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Laurentian Great Lakes (Stemberger, 1979)
- Australian region: Yarra River, Vic, Aust. (Bērziņš, 1978); Tasmania (Koste & Shiel, 1986b); Vic, Aust. (Shiel & Koste, 1985); Wellington, New Zealand (Russell, 1960)
- Neotropical region: Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984)

Aspelta baltica Remane, 1929

- Palaearctic region: C Eur. plains & NW Russian taiga (Bērziņš, 1978); Scandinavian coastal waters (Thane-Fenchel, 1968)

Aspelta beltista Harring & Myers, 1928

- Palaearctic region: C Eur. plains (Bērziņš, 1978)
- Nearctic region: Canada (Chengalath, 1977); N America (Bērziņš, 1978)

Aspelta bidentata Wulfert, 1961

- Palaearctic region: Dübener Heide, N Germany (Wulfert, 1961); C Eur. plains (Bērziņš, 1978)

Aspelta circinator (Gosse, 1886)

- Palaearctic region: Karelian inland waters, R.F. (Kutikova, 1965); Peat bogs in the Auvergne, Fr. (Francez, 1981); Peat bog Chambedaze, Puy-de-Dôme, Fr. (Francez, 1982 & 1984c); Nat. Res. "Oisterwijkse vennen", NL (De Graaf, 1960; Dresscher, 1976); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); C & S Sweden (Bērziņš & Pejler, 1989a, 1989b & 1989c); Romania (Rudescu, 1960); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); All over Europe. Cosmopolitan (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985); River Salzach & its tributaries, Austria (Donner, 1970); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Near Tai-Shan mountain, China (Wulfert, 1968); Lake Stechlinsee, Germany (Ronneberger & Schönborn, 1986)
- Nearctic region: Canada (Chengalath, 1977); Newfoundland & Labrador, NE Canada (Chengalath & Koste, 1983); Arctic N America (Chengalath & Koste, 1989)
- Australian region: Plenty River, Vic, Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985)
- Neotropical region: Oriente, Ecuador (Koste & Böttger, 1992)

Aspelta clydona Harring & Myers, 1928

- Palaearctic region: C Eur. plains, Ireland, UK, NW Russian taiga (Bērziņš, 1978); Sea & rock pools of Tvärminne Archip., S Finl. (Björklund, 1972a); Baltic sea (Jansson, 1967); Scandinavian coastal waters (Thane-Fenchel, 1968)

Aspelta clydona Harring & Myers, f. *europaea* Hauer, 1939

- Palaearctic region: Rock pools in S Finland (Björklund, 1972a); Coast of Norway (Eriksen, 1968); Achmer Grasmoor, NW Germany (Koste, 1968); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); C Eur. plains (Bērziņš, 1978); Romania (Rudescu, 1960)

Aspelta ecuadorensis Koste, 1991

- Neotropical region: Oriente, Ecuador (Koste & Böttger, 1992)

Aspelta egregia Myers, 1936

- Palaearctic region: River Ybbarpsån, Sweden (Bērziņš, 1979); C Eur. plains (Bērziņš, 1978)
- Nearctic region: N America (Bērziņš, 1978)

Aspelta harringi (Remane, 1929)

- Palaearctic region: Scandinavian coastal waters (Thane-Fenchel, 1968); C Eur. plains (Bērziņš, 1978)

Aspelta harringi Myers (Remane), f. *antonowiesae* D'Hondt, 1970

- Palaearctic region: Roscoff, Atlantic coast of Brittany, France (D'Hondt, 1970)

Aspelta intradentata Bērziņš, 1949

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Aspelta labri Harring & Myers, 1928

- Palaearctic region: E Eur. mountains (Bērziņš, 1978)
- Nearctic region: N America (Bērziņš, 1978)

Aspelta lestes Haring & Myers, 1928

- Palaearctic region: C Eur. mountains & plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Aspelta macra Haring & Myers, 1928

- Palaearctic region: Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

Aspelta mollis Rudescu, 1960

- Palaearctic region: Romania (Rudescu, 1960); Black Sea (Rudescu, 1961); Pontic province (Bērziņš, 1978)

Aspelta nevoisi Bērziņš, 1982

- Australian region: Yarra river near Ivanhoe, Vic, Aust. (Bērziņš, 1982); Vic. Aust. (Shiel & Koste, 1985)

Aspelta pachida (Gosse, 1987)

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Aspelta psitta Haring & Myers, 1928

- Palaearctic region: Hungarian plain (Bērziņš, 1978); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lake Neusiedlersee, Austria (Donner, 1972d & 1979)

- Australian region: River Murray, Aust. (Koste, 1979b); Vic. Aust. (Koste & Shiel, 1980c)

Aspelta reibischi (Remane, 1929)

- Palaearctic region: Scandinavian coastal waters (Thane-Fenchel, 1968); Lakes and streams in Soviet Karelia (Filimonova, 1976); C Eur plains & boreal highland (Bērziņš, 1978)

Aspelta tilba Koste & Shiel, 1987

- Australian region: Tasmania (Koste & Shiel, 1986b & 1987); Central Plateau, Tasmania (Shiel, Koste & Tan, 1989)

Aspelta spec.

- Palaearctic region: S coast of Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986)

- Nearctic region: Illinois & Kentucky, USA (Bērziņš, 1984)

Asplanchna Gosse, 1850*Asplanchna brightwelli* (Gosse, 1850)

- Palaearctic region: Lake Victoria, Oltenia area, Romania (Marx *et al.*, 1967); Karelian inland waters, R.F. (Kutikova, 1965); Bullhousen Pond, Bisley, Surrey, UK (Pontin & Pontin, 1980); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Lakes in C Sweden (Pejler, 1964); Pool near Limours (Yvelines), Fr. (Pourriot, 1974); Black Sea (Rudescu, 1961); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Rés. Biol. de Villars-la-Dombes, Fr. (Rostan, 1976); R. Loire, in St.-Laurent-les-Eaux, Fr. (Pourriot *et al.*, 1982); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Hamburg area, Germany (Rühmann, 1961 & 1965a); Water bodies in the Hamburg area, G. (Rühmann, 1964); Middle course of r. Loire, Fr. (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Serbian part of r. Danube (Zivkovic, 1987); Spain: Sevilla & Madrid (Velasco, 1990); Exp. ponds in Golysz, Poland (Lemkowicz, 1971; Zürek, 1974); Gravel pits along river Meuse, NL (Wibaut-Isebree Moens, 1964); Lake Kinneret, Israel (Serruya & Pollingher, 1984); L. Kitagata, Hokuriki district, Japan (Kanetsuna, 1973); Lake Laacher See, Eifel, Germ. (Eckartz-Nolden & Nolden, 1992); R. Elbe near Hamburg (Caspers & Schulz, 1964); Volga River, R.F. (V'yushkova & Lakhnova, 1974); Peridunar pond Dulec, Doñana Nat. Park, Sp. (López, 1991); Rostov Oblast & Krasnodar Kray, Kouban, R.F. (Krylova, 1971); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); "Grote vijver" Fort 8 Hoboken (Antw.)B. (De Smet *et al.*, 1986); "Kleine vijver" Fort 8 Hoboken (Antw.)B. (De Smet *et al.*, 1989); Moat fort Merksem, Belgium (De Smet *et al.*, 1987); N and W Iceland (De Ridder, 1972); Lower Volga, R.F. (Chuykov & Merkulov, 1986; Chuykov, 1981); Terek Delta, Astrakhan Peninsula, R.F. (Chuykov & Deneskin, 1985); Canal Isebek, Hamburg, G. (Caspers & Schulz, 1960; Caspers, 1964); Japanese inland waters (Yamamoto, 1960a); Quinghai Lake, China-Mongolia (Williams, 1991); Dor Fish & Aquacult. Research Station, Israel (Gasith & Perry, 1985); L. Batlava impoundment, CRS (Jankovic, 1975); Southwest islands of Japan (Sudzuki *et al.*, 1992); Central Asian area lakes, Mongolia (Dubna, 1979); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Mouth areas of the Danube branches, Rom. (Popescu-Marinescu, 1974); Funada-ike Pond, Chiba, Japan (Urabe, 1992); L. Tüzer See, Neubrandenburg, Germany (Doll, 1984); Highly dystrophic lake Smolak, Poland (Brinska *et al.*, 1976); Ponds in Waldviertel area, Lower Aust. (Naidenow & Wawrik, 1984); All over the Netherlands (Dresscher, 1976); El Ghab area, Syria (De Ridder, 1965); 3 Localities in Belgium (De Ridder, 1986); R. Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary, Germany (Schulz, 1961); Nat. Res. "Oisterwijkse vennen", NL (De Graaf, 1960); New impoundments in the CSR (Kubicek, 1978); R. Loire,

France (Lair *et al.*, 1978); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Lake Palaeostomi, Georgia, R.F. (Haberman, 1982; Haberman & Laugaste, 1982); Lake Kinneret, Israel (Landau *et al.*, 1988); Finland (Eriksen, 1969); Mine waters in E Poland (Radwan & Paleolog, 1983); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Slovenia, Ex-Yugoslavia (Markic, 1983); Asian Turkey (Dumont & De Ridder, 1987); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); 12 Mountain lakes, high in the Hymalaya (Vass *et al.*, 1989); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Area Bamberg-Höchststadt, Germany (Halbach, 1973); Imp. Kninicki & river Svatka, CSR L. Mikolajskie & L. Sniardny, Maz.Lakeland (Kubicek, 1964); Poland (Kosicki, 1960); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Lakes in C Sweden (Pejler, 1965); Lake Myvatn, Iceland (Adalsteinson, 1974 & 1978); R. Guadalquivir, Spain (Guisande & Toja, 1988); Middle course river Po, Italy (Ferrari *et al.*, 1986); Afghanistan (Bērziņš, 1961); Romania (Rudescu, 1960); Pond in Surrey, UK (Pontin, 1989); River Po, Italy (Ferrari *et al.*, 1989); Lake Orog-nur, Gobi Desert, Mongolia (Koste & Wulfert, 1964); River Hase, NW Germany (Koste, 1976b); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Many Localities in France & Germ. (de Beauchamp, 1966); Lake Balaton, Hungary (Zankai, 1968); Lake Donk, Overmere, B. (Coussement, 1976; Dumont, 1968b); R. Meuse Liégeoise, Belgium (Baiverlin, 1984); Lake Kus, Turkey (Ustaoglu & Balik, 1990a); Lakes N of Bucarest, Rom. (Godeanu, 1969b); Danube delta, Romania (Zinevici & Teodorescu, 1991)

- Nearctic region: Canada (Chengalath, 1977); L. Thonotosassa, near Tampa, Florida (Gilbert & Confer, 1986; Gilbert & Wurdak, 1978; Snell, 1979 & 1989; Snell & King, 1977b; Stemberger & Gilbert, 1987); Deggs Lake, Colorado, USA (Pennak, 1966); Altiplanicio Central, México (Vilaclara & Sladeczek, 1989); Colorado, USA (Turner, 1988); Wisconsin, Illinois & Kentucky, USA (Bērziņš, 1984); Sacramento-San Joaquin delta, C California (Salt, 1977); Florida, Indiana, Tennessee, USA (Gilbert, 1983); Bloomington, Indiana & Lawrence township, USA (Birky & Power, 1969); Bloomington, Indiana & Paris, Tennessee, USA (Birky, 1964, 1965 & 1967; Snell, 1989); Millstone pond, near to Rocky Hill, New Jersey (Gilbert & Waage, 1967); Northern Michigan inland lakes (Stemberger, 1990); Lakes at Santee, California, USA (Nogrady, 1982); Lac Echo, Québec, Canada (Nogrady, 1976); Laurentian Great Lakes (Stemberger, 1979); Crater L., Walker L. & Stoneman L., Arizona (Green, 1986); Mokelumne River, C California, USA (Salt *et al.*, 1978); Exp. ponds near Bakersfield, Kern Co, California (Hurlbert *et al.*, 1972); Near Princeton, New Jersey, USA (Gilbert, 1968)

- Oriental region: Parakrama Samudra, Sri Lanka (Duncan & Gulati, 1981; Duncan, 1983a; Fernando & Rajapaksa, 1983); Reservoir Parakrama Samudra, Sri Lanka (Duncan, 1984; Duncan & Gulati, 1983); Thailand (Boonsom, 1984b); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Taiwan & Singapore. Cosmopolitan (Sudzuki, 1991); W Bengal, NE India (Sharma, 1979b); Bangkok & pool near r. Kwai, Thailand (De Ridder, 1971); 2 Kumaun Himalaya lakes, UP, India (Sharma & Pant, 1980); Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969); Peninsula Malacca (Dunn, 1970); Warm lakes in Nilnag (Serruya & Pollingher, 1984); Java (Green & Oey, 1974); Singapore (Karunakaran & Johnson, 1978); Taiwan (Sudzuki, 1988); India (Sharma & Michael, 1980); Andhra Pradesh, S India (Dhanapati, 1975); Lake Parakrama, Sri Lanka (Fernando, 1984); Sri Lanka (Fernando, 1980a); Taiwan, Thailand, Malaysia, Singapore (Sudzuki, 1989); Indonesia, Sri Lanka, India (Sudzuki, 1989); Kalimantan (Borneo) Indonesia (Koste, 1988); Sri Lanka: large & small lakes, esp. eutrophic (Chengalath, Koste & Fernando, 1973); Fishponds at Barrackpore, W Bengal State, India (Michael, 1968); Punjab State, India (Sharma & Sharma, 1984)

- Australian region: ? Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); NSW, Qld, Vic, W & S Aust. (Shiel & Koste, 1979); Lower r. Murray, S Aust. (Shiel, Walker & Williams, 1982); Murray river, at Mannum, S Aust. (Koste & Shiel, 1980); SW Aust. (Koste, Shiel & Brock, 1983); Reservoirs in SE Aust. (Shiel *et al.*, 1987); Australia (Shiel, 1981); Sheepwash billabong, near Molesworth, Vic. (Shiel, 1983); Magela Creek area, NT, Aust. (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); River Murray at Mannum, S Aust. (Shiel, 1979; Koste, 1960; Serruya & Pollingher, 1984); N Otago & S Canterbury; Christchurch, N Zeal. (Russell, 1960)

- Neotropical region: Crescent Lake, Rio Snia Missu, Mato Grosso, C. Brazil (Green, 1972); Lake Embalse-Rapel, Chile (Andrew *et al.*, 1989); River Parana, Argentina (Paggi & José de Paggi, 1974); Patagonian tableland, S Argentina (Paggi, 1981); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco river and its delta, Ven. (Vasquez & Rey, 1989); Lago Paroni, Amazonia, Brazil (Koste, 1974a); Argentina, Brazil, Paraguay, Panama, Honduras, Peru (Koste & José de Paggi, 1982); Prov. Tierra del Fuego, Santa Cruz, Chubut, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Caribbean part of the Neotropical region (De Ridder, 1977); Aruba, Caribbean Islands, Costa Rica, El Salvador, Guatemala, Haiti, Panama (Collado *et al.*, 1984); Prov. Santa Cruz & Tierra del Fuego, Argentina; Brazil, Bolivia, Chile, Paraguay (Olivier, 1965); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Lago Jurucui &

L. Tefé, Amazonia, Brazil (Schaden, 1977c); Lake Masaya, Nicaragua (Moreno *et al.*, 1992)

Asplanchna brightwelli (Gosse), f. *asymmetrica* Shiel & Koste, 1985

- Australian region: Solomon Dam, Palm Island, Qld, Aust. (Shiel & Koste, 1985)

Asplanchna brightwelli (Gosse), f. *urawensis* Sudzuki, 1956

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989)

Asplanchna girodi (De Guerne, 1888)

- Palaearctic region: Romania (Rudescu, 1960); L. de Créteil, Paris suburb, Fr. (Garreau, Rougier & Pourriot, 1988); Banyoles Lake, NE Spain (Miracle, 1985); Karstic lake Percile, Latium, Italy (Margaritora *et al.*, 1981); Lakes C Sweden (Pejler, 1965); Lake Nemi, Latium, C. Italy (Stella, Ferrero & Margaritora, 1978); Carp ponds in S Poland (Zurak, 1980); Lago Giulianello, Latium, Italy (Ferrara & Margaritora, 1978); Albufera de Valencia, Spain (Oltra & Miracle, 1984); Lake Balaton, Hungary (Zankai & Ponyi, 1970 & 1971a; Zankai, 1989); Reservoirs in Spain (Guiset, 1977); Finland (Eriksen, 1969); Banyoles Lake, NE Spain (Miracle, 1974; Miracle & Vicente, 1983); Lake Pluszsee, N Germany (Hofmann, 1983); Lake Cullera, near Valencia, Spain (Miracle & Vicente, 1983); Slovenia, ex-Yugoslavia (Markic, 1983); ? Lakes in Estonia (Mäemets, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Pools river Elbe, CSR (Dvorakova, 1961); District Ostrava, CSR (Dvorakova, 1960b); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Darnsee near Epe, New Germany (Koste, 1962); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Delta of r. Danube, Romania (Zinevici & Teodorescu, 1990); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); River Grabia basin, Poland (Pawlowski, 1973); Latorica, E Slovakian lowland, CSR (Terek, 1990a); Boatracing canal Gent, B (Coussement *et al.*, 1976; Coussement, 1982; Vanderbeken, 1977); Lake Donk, Overmere, B. (Coussement *et al.*, 1976; Roche, 1987 & 1989); Karagöl, near Izmir, Turkey (Ustaoglu, 1986); All over Europe; Asia Minor (Bērziņš, 1978); Lower Volga, R.F. (Chuykov & Merkulov, 1986); Cherepet' power plant, S of Moscow (Kuznetsova, 1982); L. Pluszsee, N Germany (Hofmann, 1975); Exper. fish culture station at Golysz, catchment area of the Upper Vistula r., Poland (Lemkowicz, 1984); L. Giulianello, Latium, Italy (Stella & Margaritora, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Ponds in Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); L. Neusiedlersee, Austria (Donner, 1972d & 1979); Boom & Gent, Belgium (De Ridder, 1986); R. Danube (Enaceanu & Brezeanu, 1970); Lac de Créteil, Paris suburb, Fr. (Garnier & Lescher-Moutoué, 1983); Lowland brook-pond system, Boom, B. (Maes, 1985); L. Max Eyth-See near Stuttgart, Germ. (Lechner, 1966); L. Chambon, Puy-de-Dôme, Fr. (Persoone *et al.*, 1968); L. Ösbysjön, near Stockholm, Sweden (Pejler, 1961); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Etang de Beauséjour, Yvelines, Fr.; Le Rondeau & étangs de prairie, Rambouillet (Pourriot, 1965); Serbian part of r. Danube (Zivkovic, 1978); Spain: Alicante, Gerona, Huesca, Lerida & Valencia; Portugal: Beja & Evora (Velasco, 1990; Darsz-Zingst Estuary, N Germany (Arndt, 1991)

- Neartic region: Canada (Chengalath, 1977); Ontario, Canada (Chengalath & Fernando, 1973); Sacramento-San Joaquin delta, C California (Salt, 1977 & 1989); Golf course pond, near Tampa, Fa (Snell, 1979, 1980 & 1989; Snell & King, 1977; King & Snell, 1977b; King, 1980; Stemberger & Gilbert, 1987; Gilbert & Wurdak, 1978); Golf course pond & No Name Lake, Tampa, Fa (King & Snell, 1980); Lake Washington, Seattle, USA (Gilbert, 1966 & 1967; Stemberger & Gilbert, 1984a); Star Lake, Norwich, Vermont & Tampa, Fa (Gilbert, 1980); Star Lake, Norwich, Vermont (Gilbert, 1989b; Gilbert & Stemberger, 1985b; Bogdan, Gilbert & Starkweather, 1980; Williamson & Gilbert, 1980); Small pond in Vermont, USA (Gilbert, 1985); Hellertown res., Northampton Co, Pa, USA (Williamson *et al.*, 1989); Golf Course pond & No Name Lake, Tampa, Fa (Gilbert & Litton, 1978); Kingston, Ontario, Canada (Nogrady, 1989); Tennessee, USA (Snell, 1989); Ontario, Canada (Chengalath *et al.*, 1971); Northern Michigan inland lakes (Stemberger, 1990); Paradise Lake, E Canada (George & Fernando, 1969); Clear Lake, California, USA (Li & Li, 1979); San Francisco, USA (Nogrady, 1983); Mokelumne r., C California, USA (Salt *et al.*, 1978); Pond near Paris, Tennessee, USA (Birky, 1964 & 1967)

- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981; Malaysia (Sudzuki, 1989)

- Australian region: NSW, Aust. (Shiel & Koste 1979); Australia (Shiel, 1979); S Tasmania; also Qld & Vic, Aust. (Koste, Shiel & Tan, 1988)

- Neotropical region: Peru, Brazil, Argentina (Koste & José de Paggi, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Prov. of Chubut, Salta, Santa Fé & Buenos Aires, Arg. (José de Paggi, 1990); Chilean lakes (Schmid-Araya, 1991); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); Lago Jurucui, Amaz., Brazil (Schaden, 1977c); Oriente & Sierra, Ecuador (Koste & Böttger, 1992)

Asplanchna herricki de Guerne, 1888

- Palaearctic region: R. Danube (Enaceanu & Brezeanu, 1970); Lakes in S Sweden (Arnemo *et al.*, 1968); Finland (Eriksen, 1969); Lake Võrtjärvi, Estonia (Kutikova & Haberman, 1986); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983); Lake Glubokoje, near Moscow, R.F. (Matveeva, 1983, 1986 & 1991); Lakes in Estonia (Mäemets, 1983; Haberman, 1978); C & S Sweden (Bērziņš & Pejler, 1987, 1989a,

1989b, 1989c, 1989d); Impoundment Kninicki, CSR (Kubicek, 1964); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Lake Numasawa, Japan (Sudzuki *et al.*, 1989); Lake Mälaren, Sweden (Grönberg, 1975); Romania (Rudescu, 1960 Volga River, R.F. (Mordukhai-Boltovskoi, 1979); V'yushkhova & Lakhnova, 1974); Soviet Karelia (Filimonova, 1976); Lake Ladoga, R.F. (Nikolayev & Petrova, 1978); Lapland State Preserve, R.F. (Ghilarov, 1972); All over Europe (Bērziņš, 1978); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Danube delta, Romania (Zinevici & Teodorescu, 1991); Soviet section of r. Danube (Parchuk, 1985); Lower Volga, R.F. (Chuykov, 1981); Japanese inland waters (Yamamoto, 1960a); Dübener Heide, N Germany (Wulfert, 1961); Lower Danube in Romania (Enaceanu, 1964); Etang de Pommereau (Loir-et-Cher), Fr. (Tassigny *et al.*, 1970); R.Rijn, Waal & Yssel; L.Wijlremeer, near Nijmegen; Ysselmeer; R.Maas; Winterswijk region, NL (Dresscher, 1976); Etang des monts rosés, Sivry, Belgium (De Ridder, 1986); Mt. Fuji area, Japan (Sudzuki, 1978a); Lakes around Mt. Fuji, Japan (Sudzuki, 1971b); Serbian section of r. Danube (Zivkovic, 1987); Portugal: Evora (Velasco, 1990); Lake of Hokuriki district, Japan (Kanetsuna, 1973); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Impoundment Weidatalsperre, E Thür, Germ. (Hoffmann, 1966) New impoundment in the CSR (Kubicek, 1968); Lake Baikal, R.F. (Kozhov, 1963); Karelian inland waters, R.F. (Kutikova, 1965); Hamburg area, Germany (Rühmann, 1961); R. Loire, France (middle course) (Lair & Sargos, 1981)

- Nearctic region: N America (Bērziņš, 1978); Lake Waccama, N Carolina, USA (Thomasson, 1963a); Canada (Chengalath, 1977; Chengalath *et al.*, 1971); Ontario, Canada (Chengalath & Fernando, 1973); Cap Breton Island, Nova Scotia, Can. (Chengalath & Koste, 1988); Kingston, Ontario, Canada (Nogrady, 1989); Northern Michigan inland lakes (Stemberger, 1990); Laurentian Great Lakes (Stemberger, 1979); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988)

- Oriental region: Taiwan (Sudzuki, 1988 & 1989)

- Australian region: Sheepwash billabong, near Molesworth, Vic, Aust. (Shiel, 1983); Vic, Aust. (Shiel & Koste, 1985)

- Neotropical region: Suape region, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992)

Asplanchna intermedia (Hudson, 1886)

- Palaearctic region: Koyama-Ike, coastal pond in Japan (Sudzuki & Fukuta, 1989); W & C Eur. mountains, W & E Eur. plains, UK (Bērziņš, 1978); L. Chambon, Puy-de-Dôme, France (Persoone *et al.*, 1968)

- Nearctic region: Davis, California, USA (Gilbert & Wurdak, 1978); Bay of Quinte, L. Ontario, Canada (Nogrady, 1988)

- Oriental region: Fresh & polluted waters in Nagpur, C India (Arora, 1962a, 1962b, 1966a & 1966c); Near Bhopal, C India (Arora, 1967); Andhra Pradesh, S India (Dhanapathi, 1975); River Yamuna, India (Novotna-Dvorakova, 1963; Rai, 1974); India (Sharma & Michael, 1980); Taiwan, Singapore, Sri Lanka (Sudzuki, 1989); Village pool near Patan, Nepal (Daems & Dumont, 1974)

- Australian region: Qld, Aust. (Shiel & Koste, 1979); Christchurch, N Zealand; Campbell Island (Russell, 1960)

Asplanchna priodonta (Gosse, 1850)

- Palaearctic region: Koyama-Ike, coastal pond in Japan (Sudzuki & Fukuta, 1989); Upland reservoir in S Poland (Zurek, 1980); Lake Sempachersee, CH (Zimmermann, 1974); Lake Biwa, Japan (Yamamoto, 1967 & 1968; Marita & Mori, *s.d.*; Hillbricht-Ilkowska, 1983a); Darnsee near Epe, NW Germany (Koste, 1962); Azibo reservoir, near Porto, Portugal (Vascoucelos, 1990); River Hase, NW Germany (Koste, 1976b); Lake Mälaren, Sweden (Grönberg, 1975); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Delta of r. Danube (Zinevici & Teodorescu, 1990; Godeanu & Zinevici, 1983); Slovenia, ex-Yugosl. (Markic, 1983); Lake Glubokoje, near Moscow, R.F. (Matveeva, 1983); Lakes in Estonia (Mäemets, 1983); Asian Turkey (Dumont & de Ridder, 1987); Alps & Pyrenees (Morales-Baquero, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); Lake Bielersee, CH (Bernier-Fankhauser, 1987); Lake Pluszsee, N Germany (Hofmann, 1987); Lake Siggeforasjön, Sweden (Grundström, 1987); Priest Pott, Lake District, UK (Hewitt & George, 1987); Loch Leven, Scotland (May, 1986 & 1987); District Ostrava, CSR (Dvorakova, 1960b); Buchseen, Bodensee (Einsle, 1966); Mindelsee, Bodensee (Einsle, 1967); Central Finland (Eloranta, 1982b), L. Bolsena, L. Bracciano, L. Vico, C Italy (Ferrari, 1972); L. Santo Pannense, N Apennines, Italy (Ferrari *et al.*, 1973); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); 12 lakes, high in the Himalaya (Vass *et al.*, 1989); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Lake Balaton, Hungary (Zankai, 1989); Romania (Rudescu, 1960); Canal de Séclin, Nord, France (Angeli, 1972); Lake Myvatn, Iceland (Adalsteinsson, 1974 & 1979); Lago Giulianello, Latium, Italy (Ferrara & Margaritora, 1977; Bazzanti & Stella, 1977); Lake Bodensee near Konstanz (Althaus, 1962); Lake Stechlinsee, Brandenburg, Germ. (Althaus, 1963); Talsperren Saldenbach & Neunzehnhain, Germ. (Althaus, 1976); Saldenbach Talsperren, Erzgebirge, Germ. (Beuschold, 1961; Rudolf, 1966); Lakes in S Sweden (Arnemo *et al.*, 1968); Lake Groszer Müggelsee, Berlin (Barthelmes, 1960); Lake Bielersee, CH (Baugerter

et al., 1980); River Klyas'ma, R.F. (Bogoslovski, 1961); Province Heiluntian, China (Bogoslovski, 1962); Impoundment "Eisernes Tor", Danube, Rom. (Brezeanu & Peten, 1973); Lake Maggiore, Italy (Goldman *et al.*, 1968); Region Bamberg-Höchstadt, Germany (Halbach, 1973); Nat. Res. Jurski Súr, CSR (Hudec, 1978); L. Stechlinsee & L. Nehmitzsee, Brandenb., Germany (Kasprzack & Ronneberger, 1982); L. Kisajno, Mazurian Lakeland, Poland (Klimowicz, 1964); L. Mikolajskie & L. Taltowisko, Maz. lakeland, Poland (Klimowicz, 1972); Impoundment Kninicki, CSR (Kubicek, 1964); Lake Mälaren, Sweden (Lanner & Pejler, 1973); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Nat. Res. Neeruti Lakes, NE Estonia (Mäemets A. & A., *s.d.*); Karstic lake Percile, Latium, Italy (Margaritora *et al.*, 1981); Pyrenean Lakes, Spain (Miracle, 1978); Briaz water power reservoir, Romania (Battes *et al.*, 1971); Middle course r. Po, Italy (Ferrari *et al.*, 1968); L. Erken, 50 km E of Uppsala, Sweden (Dottne-Lindgren, 1973); L. Goggausee, Carinthia, Austria (Herzig & Moog, 1976); L. Glubokoje, near Moscow, R.F. (Ghilarov, 1976); L. Ilmen, Ukraina, R.F. (Stepanova, 1972); River Ybbarpsån, Sweden (Bērziņš, 1979); Bansee, near Seon, Bavaria (Preisler, 1977a & 1980); Experimental fishponds near Warsaw, Poland (Spodniewska *et al.*, 1966); Canal Leeds-Liverpool, UK (Galliford, 1960b); Danube delta, Romania (Zinevici & Teodorescu, 1991); L. Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Mt. Fuji area, Japan (Sudzuki, 1971); Etang du Brochet & E. du Bouc, Rambouillet, Fr. (Pourriot *et al.*, 1969); Small lakes SE of Gothenburg, W Sweden (Morling & Pejler, 1990); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Lake Derwart, near Doornik, Belgium (Bogaert & Dumont, 1989); Volga r. & Volgograd Reservoir, R.F. (V'yushkova & Lakhnova, 1974); Soviet Karelia, R.F. (Filimonova, 1976); Ponds of the Kochubey fishfarm, Dagestania ASSR (Sal'nikov & Badmina, 1979); Carp nursery ponds in the S Urals, R.F. (Lyubimova, 1974); Lake Duvankul, S Urals, R.F. (Kozlova, 1976); Near Szarvas, Hungary (Tamas, 1975); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Rivers in W Kazakhstan, R.F. (Petrova, 1976); Dniester Estuary, R.F. (Polishchuk, 1976); Lake Ladoga, R.F. (Nikolayev & Petrova, 1978); Lake Sevan, Armenia, R.F. (Meshkova & Nikogosyan, 1978); Lapland State Preserve, R.F. (Ghilarov, 1972); Kolyrna Indigirka tundra & taiga lakes, R.F. (Kirillova & Sokolova, 1972); Oligotrophic neutral to alkaline lakes in NW R.F. (Salazkin, 1971); Vilnyus, Lithuanian R.F. (Rachjunas, 1971); All over Europe; Caucasus; Caspian area; Asia Minor (Bērziņš, 1979); Lac de Créteil, Paris suburb, France (Pourriot & Rougier, 1991); Obretin lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Claus & Dall'Asta, 1972; Martens, 1985; Coussement, 1976; Roche, 1987 & 1989); Boatracing canal, Gent (De Maeseneer *et al.*, 1978; Van Vossel, 1973; Coussement, 1982); Lake Gates, Denderleeuw, Belgium (Dumont, 1968a); Pond Botanical Garden, Gent (Verheye, 1980); River Lieve, Gent (De Smet & Evens, 1970); R. Meuse Liégeoise, Belgium (Baiverlin, 1984); L. Mikolajskie & L. Taltowisko, Poland (Ejsmont-Karabin, 1974); Gulf of Bothnia, G. of Finland, ? W English channel (Bērziņš, 1979); Forest pond Lembeek, Halle, Belgium (Deronde *et al.*, 1984); Lake Marmara, Turkey (Ustaoglu, in press); Camargue, S France (De Ridder, 1960a); Karstic lakes Prosece & Kozkak, Croatia, ex-Yugosl. (Erben, 1991); Lake Aydat, Massif Central, France (Lair, 1991); Grote Vijver Fort 8, Hoboken (Antw.) Belgium (De Smet *et al.*, 1986); Kleine Vijver Fort 8, Hoboken (Antw.) Belgium (De Smet *et al.*, 1989); Moat Fort Merksem (Antw.) Belgium (De Smet *et al.*, 1987); Large & small rivers, tributary to Kiev res., R.F. (Polishchuk, 1987); Lake Shtchuchye, E Siberia (Krylov, 1988); W and N Iceland (De Ridder, 1970); N and S Iceland (De Ridder, 1972); Upper Kremenchug reservoir, R.F. (Kundijev & Kryzhan, 1986); River Volga, R.F. (Chuykov & Merkulov, 1986); Vilny river, R.F. (Sokolova, 1986); L. Krasnoye, Karelian Isthmus, R.F. (Aleksandrov & Kutikova, 1985); Terek delta, Astrakhan Peninsula, R.F. (Chuykov & Deneskin, 1985); Soviet Section of r. Danube (Parchuk, 1985); L. Kedra & L. Tarasus, L. Onega basin, R.F. (Kruglova, 1981); Small rivers of the Kola Peninsula, R.F. (Kruglova, 1983); Baikal biological Station, R.F. (Lozhnikova *et al.*, 1981); Cherepet' Power Plant, S of Moscow, R.F. (Kuznessova, 1982); Barabinskaya Power Plant, near Novosibirsk, R.F. (Volgin, 1982); Rybinsk Reservoir, R.F. (Kartasheva & Lebedeva, 1981); Pallanza & surroundings, Italian Alps (Edmondson, 1960); Rieti plain, Latium, Italy (Cianficconi *et al.*, 1986); L. Mikolajskie & L. Taltowisko, Poland (Gliwicz *et al.*, 1978); Lake Vechten, NL (Gulati, 1975); Lake Pluszsee, N Germany (Hofmann, 1975 & 1986); Lake Warniak, Poland (Kajak *et al.*, 1972 Lac Pavin & Lac de Tazenat, Massif Central, Fr. (Lair, 1975); Lake Baikal, R.F. (Kutikova, 1968); Loch Leven, Scotland (May, 1985); Lake Onega, R.F. (Nikolaev, 1972); Lakes in E Poland (Radwan, 1978); Pond Vasikkalampi, C Finland (Eloranta, 1981); Dor Fish & Aquacult. Res. Station, Israel (Gasith & Perry, 1985); Perchpike lakes in N Poland (Mikulski, 1964); Bay of Ispra, Lago Maggiore, Italy (Ravera, 1969); Lake Mälaren, S Sweden (Willén, 1975); L. Giulianello, Latium, Italy (Stella & Margaritora, 1972); R. Dnieper & impoundment on it, Ukraina, R.F. (Zeeb, 1972); L. Santo Parmense, N Apennines, Italy (Ferrari, 1976); Dübener Heide, N Germany (Wulfert, 1961); Niederrhein & Fulda, Germany (Bringmann & Kühn, 1962); Artificial lakes near Köln, Germany (Trahms, 1972); Rivers Lausitzer Neisze & Oder, Germany (Walter & Scharf, 1961); Near Debrecen, Hungary (Dévai, 1972); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lower Danube in Romania (Enaceanu, 1964); Predeltaic area of r.

Danube in the Black Sea (Popescu-Marinescu, 1974); Impoundment Riveris, near Trier, Germany (Schnitzler, 1971); R. Danube (Austria & Romania) (Wawrik, 1968); Lac Léman, FR/CH (Martin, 1961; Balvay & Laurent, 1981); Lac de Joux, CH (Bosset, 1962); Lake Lauerzersee, CH (Odermatt, 1970); Littoral & pelagic zone of L. Nobel, Ukr. (Polishchuk, 1991); Reservoirs Hubenov & Vrehlice, CSR (Hrbacek *et al.*, 1986); Highly dystrophic Lake Smolak, Poland & highly eutrophic Lake Czarna Kuta, Poland (Brinska *et al.*, 1976); Ponds in Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); All over the Netherlands (Dresscher, 1976); Brackish waters in Lorraine orientale, Fr. (De Ridder, 1969a); All over Belgium (De Ridder, 1986); 5 Localities in Belgium (De Maeseneer, 1979); Etang des Monts Rosés, Sivry, Belgium (De Ridder, 1980); Brackish waters near Brugge, Belgium (De Ridder & Verheye, 1980); Lac Léman, Fr./CH (Naef & Martin, 1985); Lake Myvatn, Iceland (Jonasson *et al.*, 1990); Lake Neujahrsloch, Hessen, Germany (Menzel, 1968); Lake Constance, Germany (Walz *et al.*, 1987); R. Danube (Enaceanu & Brezeanu, 1970); Lake Brebu, Romania (Fesci, 1969); Bolshoe Lake, White Sea, R.F. (Ghilarov, 1965); Clay pit in Ayslesbury, Bucks., UK (Hollowday, 1979); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Ellesmere District, UK (Galliford, 1960a); Knowsley Park, Liverpool, UK (Galliford, 1964); Lac de Pétichet, Isère, France (Gay, 1979); Districts Hoge Venen & Ardennen, Belgium (Gijssels *et al.*, 1976); Lakes N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Lake Hecklan, C Sweden (Olsson *et al.*, 1992); Lac Luitel, Isère, France (Joly, 1960); Nat. Res. "Oisterwijkse vennen", NL (De Graaf, 1960); Impoundment Weidatalsperre, E Thür., Germany (Hoffmann, 1966); Lake Gjersjoen, SE Norway (Hessen & Nilssen, 1985); Lower course of Sambre River, Belgium (Dumont & Van Vossel, 1973); Small lake in SW Sweden (Stenson, 1982); Mikolajskie Lake, Maz. lakeland, Poland (Hillbricht-Ilkowska *et al.*, 1975); Blelham Tarn & other lakes, Lake District, UK (Smyly, 1976 & 1968; Ferguson *et al.*, 1982); L. Krivoe & L. Kingloe, N Karelia, R.F. (Vardapetyan, 1972); Lake Balaton, Hungary (Zankai & Ponyi, 1971a); Grasmere Lake, Lake District, UK (Elliott, 1977); 2 lakes in S Sweden (Axelson, 1961); Afghanistan (Bērziņš, 1961); Lake Greifensee, CH (Bürgi *et al.*, 1979); Natural & artificial lakes in the Apennines, Italy (Caspers, 1964); Small lakes in Estonia (Haberman & Mäemets, 1987); L. Lunzer Untersee, Austria (Ruttner-Kolisko, 1977a; Ruttner-Kolisko & Malicky, 1988); Lago Scuro Parmense, N Italy (Antonietti *et al.*, 1988); L. Kinneret, N Israel (Berman *et al.*, 1972; Landau *et al.*, 1988); Lake Bielersee, CH (Berner-Fankhauser, 1983 & 1986); Tingwal Loch, Mainland, Shetland (Bērziņš, 1982a); L. Krottensee, Salzkammergut, Austria (Ruttner-Kolisko, 1977b); Lakes in Estonia (Haberman, 1978); 3 Reservoirs on river Guadiana, Spain (Armengol *et al.*, 1988); Lake Pluszsee, near Plön, Germany (Hofmann, 1983; Krambeck, 1988); Saidenbach-Talsperre, Erzgebirge, Germany (Beuschold, 1961); Jotunheimen, Norwegian high mountains (Blakar & Jacobsen, 1979); Finland (Eriksen, 1969); High mountain lakes & reservoirs, Pyr., Sp (Miracle, 1981 & 1982); Ponds near Darmstadt, Germany (Menzel & Roth, 1972); 3 small ponds in E Poland (Radwan, 1980); Lake Bassenthwaite, Cumbria, UK (Hussey, 1983); L. Ormijärvi, S Finland (Cajander, 1983); Lake Numasawa, Japan (Sudzuki *et al.*, 1983); Great lakes in Estonia (Haberman, 1983); C Sweden (Pejler, 1972); River Thames, UK (Bothrell *et al.*, 1976); Canal Isebek, Hamburg, Germ. (Caspers, 1964); Lago Nemi, Latium, C Italy (Stella, Ferrero & Margaritora, 1978); Lago Maggiore, Italy (Tonolli, 1962); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Po river, Italy (Ferrari *et al.*, 1989); L. Lunzer Obersee, Austria (Mikschi, 1989); Lake Constance, Germany (Pauli, 1989); Romania (Rudescu, 1960); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Ponds in Japan (Hanazato & Yasumo, 1990); Experimental pond in Lelystad, NL (Verreth, 1990); Norfolk Broads, UK (Irvine *et al.*, 1990); Mikolajskie L. (eutrophic) & Taltowisco L. (mesotrophic), Maz. Lakeland, Poland (Hillbricht-Ilkowska & Weglenska, 1970); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lake Annecy, France (Balvay, 1972); Lac Léman, Fr./CH (Balvay & Laurent, 1990a & 1990b; Rougier, 1969); Loch Rusky, Scotland (Romo, 1970); Lac d'Aydat, Massif Central, France (Oulad Ali *et al.*, 1990); Lake Erken, Sweden (Blomquist & Pejler, 1980); Inundation area of Danube delta, Rom. (Dorobantu, 1964); River Grabia basin, Poland (Pawlowski, 1960, 1968, 1970 & 1973); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); Impoundments in E Bohemia, CSR (Sladeckova & Sladeczek, 1960); Luka nad Olzon, near Ostrava, Silesia, CSR (Sladeczek, 1969); Latorica, E Slovakia lowland, CSR (Terek, 1990a); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew region peat bogs, Poland (Radwan, 1974); Lake Jorzec, Maz. Lakeland, Poland (Radwan *et al.*, 1985); Pelagic zone of 3 lakes, Leczna-Wlodawa region, Poland (Radwan & Popiolek, 1977); Hamburg area, Germany (Rühmann, 1965a & 1961); R. Oltra and its principal tributaries, Rom. (Rogoz, 1972); Small lake near Chiaverano, Turin, Italy (Robotti, 1975b); Gemündener Maar, Weinfelder Maar & Pulvermaar, Eifel, Germany (Oehms & Seitz, 1992); Water Sheets in the Hamburg area, Germany (Rühmann, 1964); River Alster in Hamburg, Germany (Rühmann, 1967); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); R. Sambre in Hautmont, Boussières-s-Sambre & Berhaimont, France (Waeyaert, 1972); Ponds in Yvelines & Gif-s-Yvette, France

(Pourriot, 1965); Kakhova reservoir, near Lysaya Gora, R.F. (Pashkova, 1992); Aegean lakes, Macedonia, ex-Yugosl. & Greece (Serafimova-Hadzisce, 1974); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Mt. Fuji area, Japan (Sudzuki, 1978a); Lakes around Mt. Fuji, Japan (Sudzuki, 1971b); Small lakes, W of Yamayata, Japan (Ueno *et al.*, 1961); Serbian part of r. Danube (Zivkovic, 1987); Lago Trasimeno, Italy (Taticchi, 1968); Lake Stechlinsee, Germany (Ronneberger & Schönborn, 1985); Forest pond in Lembeek, Belgium (Van Elslande, 1975); All over Spain; Andorra; Portugal: Beja, Portalegre, Setubal (Velasco, 1990); New impoundments in the CSR (Kubicek, 1968); R. Vistula near Warsaw, Poland (Klimowicz, 1981); Canal of r. Odra, Poland (Klimowicz, 1979); Near waterworks at Okocim, Poland (Klimowicz, 1975); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); River Woluwe valley, Belgium (Lamaye, 1975); Lac de Tazenat, Massif Central, Fr. (Lair & Restituto, 1976); Dépt du Cantal, France (Omaly, 1970); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Anatolia, Turkey (Segers *et al.*, 1992); Lake Baikal, R.F. (Kozhov, 1963); Ponds at Mirwart, Belgium (Marlier & Wattiez, 1977); Lowland brook-pond system, Boom, Belgium (Maes, 1985); Lake Victoria, Oltenia region, Romania (Marx *et al.*, 1967); Lake Laacher See, Eifel, Germ. (Eckartz-Nolden & Nolden, 1992); Lake Zürichsee, CH (Nipkow, 1961); Lake Erken, Sweden (Nauwerck, 1963); Karelian inland waters, R.F. (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); L. Bansee, near Seeon, Bavaria (Preisler, 1977b); Lake in the Puy-de-Dôme, Fr. (Persoone *et al.*, 1968); L. Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Lake in C Sweden (Pejler, 1964); Lac d'Annecy, France (Balvay & Druart, 1992); Etang à Gif-s-Yvette, France (Pourriot & Leborgne, 1970); Lac Pavin, Massif Central, Fr. (Restituto & Lair, 1976); Black Sea (Rudescu, 1961); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Bulgaric bank of r. Danube (Naidenow, 1963); Ponds of Oltina, SE Dobrogea, Rom. (Popescu-Gorj & Costea, 1961); Rés. biol. de Villars-la-Dombes, Fr. (Rostan, 1976); R. Loire, in St.-Laurent-les-Eaux, Fr. (Pourriot *et al.*, 1982); Coastal prefectures Tottori & Shimane-Ken, Japan (Sudzuki & Fukuta, 1992); Gravel pits along r. Meuse, NL (Wibaut-Isebree Moens, 1964); Lake Biwa-ko, Japan (Yamamoto, 1960b); Pond Etang C, Gif-s-Yvette, Paris suburb (Pourriot & Leborgne, 1970); Rybnik dam reservoir, Poland (Krzanowski, 1979); Waters near r. Bodrog, NE Hungary (Dévai *et al.*, 1972/73); Lake Tyrifjord, Norway (Langeland, 1974); Experimental ponds at Golysz, Poland (Lemkowicz, 1971); Imp. Twistatalsperre, Nordhessen, Germ. (Meinel *et al.*, 1983); Dystrophic lake Brzeziczno, Poland (Brzek *et al.*, 1975); River Elve estuary, Germany (Schulz, 1961); L. Monterosi, Latium, Italy (Stella & Margaritora, 1966); 3 Water bodies in Turkey (Emir, 1991); Lake Moss, DK (Jørgensen, *et al.*, 1983); River Svratka, CSR (Kubicek, 1968); Lac Aydat, Massif Central, Fr. (Lair, 1978 & 1990); L. Glubokoe, near Moscow, R.F. (Matveeva, 1986 & 1991); Leczna-Wlodawa Lake District, E Poland (Kowalczyk & Radwan, 1982; Radwan 1987); Backwater Labicko, Middle-Elbe, CSR (Straskraba, 1965); Dalnee Lake, Kamchatka, R.F. (Sorokin & Paveljeva, 1972); Acid ponds in lower Austria (Wawrik, 1972); Etang de Mirwart, Belgium (Wattiez, 1978); Japanese inland waters (Yamamoto, 1960a); Canal Ysebek, Hamburg, Germany (Caspers & Schulz, 1960); Lakes in NE Norway (Saeter, 1971); Lake Constance (Kiefer, 1968); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Lac Aumar & L. Aubert, Pyr. Centr., France (Rey, 1988a); Lac Pavin, Massif Central, France (Omaly, 1968); Pond near Besse-en-Chandesse, Fr. (Omaly & Dévaux, 1971); Lac Léman Fr./CH (Gawler *et al.*, 1988; Balvay, 1989; Balvay & Laurent, 1989); Lac de Nantua, Ain, France (Balvay, 1985); Imp. Helme near Kelbra (Kyffhäuser) Germ. (Heynig, 1974); Blelham Tarn, S Lake District, UK (Smyly, 1978); Lake Nimetön, S Finland (Arvola *et al.*, 1986); Umba r. basin (White Sea basin), R.F. (Kruglova, 1991) - Nearctic region: L Wabamun, Alberta, Canada (Gallup & Hickman, 1975); 2 small reservoirs, Idaho, USA (Miller & Rabe, 1969); Borrow-pit ponds in N Illinois, USA (Lipsev & Malcom, 1981); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Desaulniers reservoir, Québec, Canada (Pinel-Alloul, *et al.*, 1982); Laurentian Great Lakes, Canada (Stemberger, 1989); Newfoundland lakes, Canada (Chengalath *et al.*, 1984); Labrador lakes, Canada (Davis, 1978); Lake Sangchris, Illinois, USA (Harmsworth, 1975); Dynamite Lake, Illinois, USA (Lynch *et al.*, 1981); Grace L., Long L. & Madeline Lake, N Canada (Moore, 1978); Mantondan Marsh, Northumberland Co, Pa, USA (Seelbach & Mc Duffet, 1983); Canadian subarctic (Moore, 1978); L. Ontario, Canada (Nauwerck, 1978); Bay of Quinte, L. Ontario, Canada (Nogrady, 1988); Northern Ontario lakes, Canada (Roff & Kwiwatkowski, 1977); James Bay area, Canada (Pinel-Alloul *et al.*, 1979); Exp. ponds near Bakersfield, Kern County, Calif. (Hurlbert *et al.*, 1972); Lakes in Churchill Falls region, Labrador, Can. (Duthie & Ostrovsky, 1974); Mirror lake, New Hampshire, USA (Likens & Gilbert, 1970; Makarewicz & Likens, 1975); Mokelumne river, C California, USA (Salt *et al.*, 1978); Lake 122 & L. 132, NW Ontario, Canada (Schindler & Novén, 1971); Lake Michigan, USA (Stemberger & Gilbert, 1985); Sources near Bloomington, Indiana, USA (Birky, 1964); Crecy Lake, New Brunswick, Canada (Smith, 1969); Lakes in Connecticut, USA (Pourriot, 1975); Colorado, USA (Turner, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Wisconsin, Illinois & Kentucky, USA (Bērziņš, 1984); Nat. Parks in B.C. & Alberta, Canada (Anderson, 1977); Sacramento-San Joaquin delta, C Calif., USA (Salt,

- 1977 & 1989); Lake Wabamun, Alberta, Canada (Horkan *et al.*, 1977); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Canada (Chengalath, 1977); Ontario, Canada (Chengalath & Fernando, 1973); Newfoundland & Labrador, NE Canada (Chengalath & Koste, 1983); Lake Ainslie, Nova Scotia, Canada (Gregory *et al.*, 1983); Lancaster Lake, Michigan, USA (Fairchild *et al.*, 1977); Lake Michigan, USA (Stemberger & Gilbert, 1984a & 1987; Stemberger, 1985); Lake Mitchel, USA (Williamson, 1984); Michigan Lake & Milwaukee Harbor, USA (Stemberger, 1974); Mirror Lake, New Hampshire, USA (Makarewicz & Likens, 1979); 3 lakes in S Ontario, Canada (Brandl & Fernando, 1984); 3 lakes in N Carolina, USA (Lemly & Dimmick, 1982); Deggs L., Highland L., Parvin L., Standley L., Shadow mountain Res., Granby Res., Colorado (Pennak, 1966); Pools & lakes near Hanover, N Hampshire, USA (Gilbert, 1988); Waterton Lakes, Alberta, Canada (Anderson & Green, 1975 & 1976); NW Canada (Chengalath & Koste, 1987); Illinois River, USA (Brown *et al.*, 1989); 18 arctic & subarctic lakes in Canada (Moore, 1978); Patricia L. & Celestine L., Jasper Nat. Park, Alberta, Canada (Anderson, 1970b); Lakes in Newfoundland, Canada (Chengalath, 1983); Ontario, Canada (Chengalath *et al.*, 1971); Northern Michigan inland lakes (Stemberger, 1990); Greens L., Beaver Island Michigan, USA (Foran & King, 1982); R. Opinaca & Small Opinaca, James Bay area, N Québec, Canada (Armengol *et al.*, 1983)
- Oriental region: Taiwan, Indonesia, Sri Lanka, India (Sudzuki, 1989); Bung-Borapet, C Thailand (Mizuno & Moro, 1970); Kalimantan, Indonesia (Koste, 1988a); Sri Lanka (Fernando, 1980a); Fishpond at Birdwan, W Bengal, India (Mandal, 1976); India (Sharma & Michael, 1980); Rice-fields of N Kriau, Perak, Malaysia (Ali, 1990); In large lakes in Sri Lanka (Chengalath, Fernando & Koste, 1973); Roshamara Tank, Naini Tank, Indranagar Tank, Stocking Tank & Nursery Tank, Delhi, India (George, 1966); Thailand (Boonsom, 1984b); W Bengal, NE India (Sharma, 1979); 2 Kumaun Himalayan lakes, U.P., India (Sharma & Pant, 1985); Nimeta water works, near Baroda, India (Wulfert, 1966); Khan Payao, Bum Borapet, Great Lake (Serruya & Pollinger, 1984)
- Australian region: Reservoirs in SE Australia (Shiel *et al.*, 1987); NSW, Qld, Vic, Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); Australia (Shiel, 1981); Sheepwash billabong, near Molesworth, Vic. Aust. (Shiel, 1983); E Australia (Koste & Shiel, 1980b); L. Manapouri, S Island, New Zealand (Bērziņš, 1982a); Narrandera, NSW, Aust. (Culver, 1988); Murray river, SE Aust. (Koste & Shiel, 1980a); North Island, New Zealand (Chapman, 1973); Murray-Darling system, Aust. (Shiel, 1986); L. Grasmere, S Island of New Zealand (Stout, 1991); L. Grasmere & L. Pearson, *ibid.* (Stout, 1984); Lake Taylor, New Zealand (Russell, 1960)
- Neotropical region: Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Argentina, Venezuela, Panama, Surinam (Koste & José de Paggi, 1982); Prov. Tierra del Fuego, Argentina (José de Paggi, 1990); Nicaragua (Collado *et al.*, 1984); Lake Moyna, Nicaragua (De Ridder, 1966b); Brokopondo Lake, Surinam (Leentvaar, 1979); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/80); Suape region, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992)
- Asplanchna priodonta* (Gosse), f. *helvetica* Imhof, 1884
- Palaeartic region: Lac Bourdouze, Puy-de-Dôme, Fr. (Persoone *et al.*, 1968); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Lake Lauerzersee, CH (Odermatt, 1970); Alps, C Eur. mountains & plains, NW Russ. Taiga (Bērziņš, 1978)
- Asplanchna priodonta* (Gosse), f. *henrietta* Langhans, 1906
- Palaeartic region: Impoundment Kninicki, CSR (Kubicek, 1964); Italy, C Eur. mountains, Carpathes, E Eur. plains, Caucasus, Caspian area (Bērziņš, 1978); Germany, Bohemia (CSR), R.F., Paris & Sologne area, France (de Beauchamp, 1961); Ponds in Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Lower Volga, R.F. (Chuykov & Merkulov, 1986; Chuykov, 1981)
- Asplanchna sieboldi* (Leydig, 1984)
- Palaeartic region: Heilunjiang Province, China (Bogoslovski, 1962); Lago Sirio, Ivred, Italy (Badino & Robotti, 1975); Lake Numasawa, Japan (Sudzuki *et al.*, 1983); Impoundment Kninicki, CSR (Kubicek, 1964); Romania (Rudescu, 1960); Pond in Surrey, UK (Pontin, 1989); Koyama-Ike, coastal pond in Japan (Sudzuki & Fukuta, 1989); Pond near München, Germany (Buchner, Mutschler & Kiechle, 1967); Delta of r. Danube, Romania (Zinevici & Teodorescu, 1990); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Inundation area of Danube delta, Rom. (Dorobantu, 1964); River Grabia basin, Poland (Pawlowski, 1960); Rügener, Hiddenseer & Darsser Bodden-gewässer, NE Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai, 1968); Danube delta, Rom. (Zinevici & Teodorescu, 1991); L. Akgöl (Selçuk-Izmir), Turkey (Ustaoglu & Balik, 1987); Fish-fattening ponds in the Ukraine, R.K. (Krazhan *et al.*, 1976); All over Europa. Caucasus, Caspian area, Asia Minor. Cosmopolitan (Bērziņš, 1978); Soviet section of the Danube, R.F. (Parchuk, 1985); In 3 water bodies in Turkey (Emir, 1991); Japanese inland waters (Yamamoto, 1960a); Exp. fish culture station at Golysz, catchment area of the Upper Vistula r., Poland (Lemkowicz, 1984); Southwest Islands of Japan (Sudzuki *et al.*, 1992); Central Asian area lakes, Mongolia (Dulma,

1979); Ponds in Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Fishpond near München, Germ. (Buchner *et al.*, 1969); R. Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary, Germany (Schulz, 1961); Canal Leeds-Liverpool, UK (Galliford, 1960b); Lakes N of Bucarest, Rom. (Godeanu, 1969b); Anatolia, Turkey (Segers *et al.*, 1992); Bulgarian bank of r. Danube (Naidenow, 1963); Hamburg area, Germany (Rühman, 1961); Hamburg Harbour, Germany (Rühman, 1961); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Fukushima Prefecture, Japan (Sudzuki, 1987); Serbian part of r. Danube (Zivkovic, 1987); Spain: Madrid (Velasco, 1990); Lake Kinneret, Israel (Serruya & Pollingher, 1984); Lake of Hokuriki District, Japan (Kanetsuna, 1973)

- Nearctic region: Sacramento-San Joaquin delta, C California (Salt, 1977); Davis, California (Gilbert, 1976 & 1977; Gilbert & Wurdak, 1978); Near Philadelphia, USA (Gilbert, 1967 & 1976); California, USA (Gilbert & Litton Jr., 1975); San Francisco, USA (Nogrady, 1983); Mokelumne River, C California, USA (Salt *et al.*, 1978)

- Oriental Region: Sri Lanka (Fernando, 1980a); Lake Parakrama, Sri Lanka (Fernando, 1984); Singapore (Karunakaran & Johnson, 1978); Taiwan, Malaysia, Singapore, Indonesia, Sri Lanka (Sudzuki, 1989); Lake in Sri Lanka (Chengalath, Fernando & Koste, 1973); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); Sunda Lakes (Serruya & Pollingher, 1984)

- Australian region: Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); NSW, Qld & Vic, Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); Australia (Shiel, 1981); E Australia (Koste & Shiel, 1980b); Magela Creek area, NT, Aust. (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Murray river, SE Aust. (Koste & Shiel, 1980); Billabong r. Murray, SE Aust. (Shiel & Koste, 1980); Tasmania (Koste & Shiel, 1987); Rivers, billabongs & reservoirs of the Murray-Darling system, Aust. (Shiel, 1986); Billabongs in the r. Murray floodplain, NSW, A. (Hillman & Shiel, 1991); Roturna, New Zealand (Russell, 1960)

- Neotropical region: Chile (Löffler, 1962); ? Lake Valencia, Venezuela (Saunders & Lewis, 1988); Ecuador: Oriente (Koste & Böttger, 1989); Orinoco river basin, Venezuela (Vasquez, 1984); Lower Orinoco r. and its delta, Ven. (Vasquez & Rey, 1989); Lago Do Macaco, Amazonia, Brazil (Koste, 1989a); Amazonia, Brazil. Cosmopolitan (Koste, 1972f); Argentina, Brazil, Venezuela, Chile, Honduras, Panama (Koste & José de Paggi, 1982); R. Jatapu & r. Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Prov. Tierra del Fuego, Covicentes & Buenos aires, Arg. (José de Paggi, 1990); Chilean Lakes (Schmid-Araya, 1991); Lake Xolotlán, Nicaragua (Cisneros & Mangas, 1991); Lake Todos los Santos, Chile (Forsyth & James, 1991); L. Rio Claro, floodplain l. of the Lower Orinoco, Venezuela (Vasquez & Medina, 1991); Floodplain lake of the Lower Orinoco, Ven. (Vasquez, *et al.*, 1992); Lago de Valencia, Venezuela (De Infante, 1980); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); Laguna la Orsinera, floodplain lake, Ven. (Twombly & Lewis Jr., 1987); Flooded savanna at Montecal, Venezuela (Michelangelli *et al.*, 1979); Prov. Tierra del Fuego, Argentina (Olivier, 1965); San Cristobal, Galapagos Islands (Segers, 1991a); Mato Grosso, Brazil (Turner & Da Silva, 1992); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Lake Masaya, Nicaragua (Moreno *et al.*, 1992); Oriente, Ecuador (Koste & Böttger, 1992); Costa Rica (Collado *et al.*, 1984)

Asplanchna silvestris (Daday, 1902)

- Nearctic region: Little Soda Lake, Nevada, USA (Gilbert & Stemberger, 1985c; Gilbert & Confer, 1986; Stemberger & Gilbert, 1987; Stemberger & Walsh, 1989); Sacramento-San Joaquin delta, California (Salt, 1977); Mokulemne River, C California, USA (Salt *et al.*, 1978)

- Neotropical region: Chile (Löffler, 1962); Chile, Argentina, Peru (Koste & José de Paggi, 1982); Prov. Neuquen, Argentina (José de Paggi, 1990); Chilean lakes (Schmid-Araya, 1991); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

Asplanchna tropica Koste & Tobias, 1987

- Oriental region: Kalimantan (Borneo), Indonesia, Discovered in Mali, Found also in Lake Kainji, Nigeria (Koste, 1988); Indonesia (Sudzuki, 1989)

Asplanchna spec.

- Palaearctic region: All over the Netherlands (Dresscher, 1976); Loosdrecht Lakes, NL (Van Tongeren *et al.*, 1992); Zwanenwater, Callantsoog, NH & Muy on Texel (Leentvaar, 1967); Quackjeswater & Breede water, Voorne, Vogelmeer near Ymuiden, NL (Leentvaar, 1963b); Laarder wasmeer, NL (Leentvaar, 1963c); Broads and peat pits, NW Overijssel, NL (Leentvaar, 1965); Delta of r. Danube, Rom. (Prunescu-Arion, 1989; Zinevici & Teodorescu, 1991); Nat. Res. Neeruti Lakes, NE Estonia (Mäemets A. & A., *s.d.*); L. Kinneret, Israel (Gophen, Serruya & Spatarn, 1988 & 1990); Barther Bodden, S Baltic Sea, Germ. (Vietinghoff *et al.*, 1984); Delta of r. Danube, Rom. (Zinevici & Teodorescu, 1990); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Hamburg area, Germany (Berghahn, 1979); Cambridge area,

UK (Jenkin, 1982); Lake Banyoles, NE Spain (Miracle, 1977); Moerdijk, Hollands Diep, NL (Leentvaar, 1980); Lake in Japan (Hanazato & Yasumo, 1988); Asiatic Turkey (Dumont & De Ridder, 1987); Lake Teganuma, C Japan (Takamura *et al.*, 1989); Lake Balaton, Hungary (Zankai, 1968); Boatracing Canal, Gent, B. (De Maeseneer, 1972, 1973, 1976); Canal de Séclin, Nord, France (Angeli, 1972); Canals in Hran area, CSR (Terek, 1990c); L. Randsfjord & surroundings, Norway (Elgmark, 1966); L. Poletzkoje, 73 km W of Moscow, R.F. (Smirnov, 1961); Sava Lake, ex-Yugoslavia (Kalafatic, 1978); Experimental ponds in Golysz, Poland (Wrobel, 1972); Sewage purification plant west, A'dam, NL (Dresscher, 1960); Akiyoshi caves, Japan (Sudzuki, 1991a); Darss-Zengst estuary, S Baltic, Sea (Heerkloss *et al.*, 1991); Loch Erne system, NW Ireland (Gibson *et al.*, 1980); Brundall, Norfolk Broads, UK (Lech *et al.*, 1980); Guanotrophic Hilversumse Wasmeer, NL (Leentvaar, 1967b); Estuary of r. Elbe, Germany (Giere, 1968); Serbian part of r. Danube (Zivkovic, 1968); Hamburg area, Germ. (Rühmann, 1961); Fukushima Prefecture, Japan (Sudzuki, 1982); Lake Insko, NW Poland (Szlauer, 1969); Experimental ponds in Golysz, Poland (Lemkowicz, 1971); Pools Erpewaaien, near Nijmegen, NL (Leentvaar, 1970); Small pools W of Yamagata, Japan (Ueno *et al.*, 1961); Acid lakes in S Finland (Arvola *et al.*, 1990); Lake Duvankul, S Urals, R.F. (Kozlova, 1976); Rivers in W Kazakhstan, R.F. (Petrova, 1976); Lake Viksvatn, C Norway (Koksvik & Reinertsen, 1991); Kanev Reservoir, Dnieper, R.F. (Mogil'chenko, 1986); Volgograd reservoir, R.F. (V'yushkova, 1985); Hudsons Bay & Hovetown Great Broad, East Anglia, UK (Timms & Moss, 1984); R. Danube & its tributaries (Bothar, 1982); Umba river system, white Sea basin, R.F. (Kruglova, 1991); Lakes Zuidelijke Vechtplassen, NL (Leentvaar, 1969); Ponds in Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Lake Neusiedlersee, Austria (Donner, 1972b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); New impoundments in the CSR (Kubicek, 1968); Middle course of river Loire, Fr. (Lair & Sargos, 1981); Fukushima Prefecture, Japan (Sudzuki, 1982)

- Nearctic region: Lake O'woods, Virginia, USA (Havens & Da Costa, 1987); Tultoyaktuk Harbor, NWT, Canada (Sutherland, 1982); Lake Arlington, Tx, USA (Sterner, 1990); Lake Weir, N C Florida, USA (Beaver & Crisman, 1990); Old Woman creek estuary, Huron, Ohio, USA (Havens, 1991); Lake Mendota, Wisconsin, USA (Pedros-Alio & Brock, 1983); Triangle Lake, NE Ohio, USA (Havens, 1989); Lake Erie, Canada (Davis, 1969); Narragansett Bay, Rhode Island, USA (Martin, 1965); Lake Frances, Oklahoma, USA (Threlkeld & Chomski, 1985); Sacramento-San Joaquin Delta Estuary, USA (Siegfried & Kopache, 1980); 5 small mountain lakes in Alberta, Canada (Anderson, 1968); L. St. George, Kings Township, Ontario, Canada (Malone & Mc Queen, 1983); In several lakes & reservoirs in California (Casper & Goldman, 1980); 3 lakes in Ontario, Canada (Brandl & Fernando, 1979); Hayden's Lake, Colorado, USA (Pennak, 1966); Little Rock Lake, Wisconsin, USA (Frost & Montz, 1988); Lake O'Woods, Preston Co, W Virginia, USA (Havens & Da Costa, 1988); Lakes Adirondack, NY State (Siegfried *et al.*, 1989); Spirit Lake, Washington, USA (Larsson & Glass, 1987); River Kalamazoo, Michigan, USA (Prins & Davis, 1966); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); L. Oglethorpe, NE Georgia, USA (Orcutt & Pace, 1984); Desaulniers Reservoirs, Québec, Canada (Pinel-Alloul *et al.*, 1982); L. Whitney, Cumberland Island Nat. Sea Shore (Stoneberger & Schmock, 1980); Experimental ponds, C Florida, USA (Fry & Osborne, 1980); Black Lake, near Boulder, Colorado, USA (Pennak, 1978); South Platte River, C Colorado, USA (Ward, 1975); Beaverskin Lake, Kejunkuyik Nat. Park, Nova Scotia, Canada (Blouin *et al.*, 1984); NW Colorado, USA (Cauton & Ward, 1981); Cottonwood Pond, Colorado, USA (Herrmann, 1977); Severson Lake, Minnesota, USA (Comita, 1972); Massay Lake, 16 km N of Beaumont, Tx, USA (Marsh *et al.*, 1978)

- Oriental region: Lakes of Malaysia (Serruya & Pollingher, 1984); Malaysia, Singapore (Sudzuki, 1989); Buckingham Canal, Madras, India (Ravichandran *et al.*, 1988); Thailand (Ueno, 1966); Taiwan (Sudzuki *et al.*, 1980); Himalaya, India (Zutshi *et al.*, 1984a); Fishponds in Thailand (Boonsom, 1984b); Thailand (Boonsom, 1984a); Fishpond in Kalyani, W Bengal, India (Jana *et al.*, 1980); Near Patiala, Punjab, India (Vasisht & Jindal, 1980); L. Sat Tal, Utar Pradesh, India (Pant *et al.*, 1987); Ponds in Chinglepat, Madras State, India (Sreenivasan, 1968); Upland lakes of Madras State, India (Sreenivasan, 1964); 2 ponds at Pilani, Rajasthan, India (Nayar, 1970)

- Australian region: Freshwater Lake Purrumbete, Aust. (Timms, 1981); Lake Benmore, South Island, New Zealand (Stout, 1978 & 1981); Sidney Reservoirs, NSW, Aust. (Thomasson, 1973); Farm dams near Gloucester, NSW, Aust. (Sudzuki, & Timms, 1980)

- Neotropical region: Laguna del Tesoro, Cuba (Alonso, 1984); S Brazil (Arcifa, 1984); Surinam (Leentvaar, 1975); Eutrophic water Santa Fé, Argentina (José de paggi, 1976); Lake Titicaca (Bolivian side) (Ueno, 1967); Broa res., Sao Paulo State, Brazil (Matsumara-Tundisi & Tundisi, 1976); Billings reservoir, São Paulo, Brazil (Sendacz, 1984); Arroyo Rodriguez, Prov. Buenos Aires, Argent. (Modenutti, 1987); Prov. Neuquen, Chaco of Corriente, Argentina (José de Paggi, 1990); River Parana, Brazil (Bonetto, 1986); Amazonia, Brazil (Hauer, 1965b); L. Tinco & L. Aguilera, Orinoco floodplain lakes, Venezuela (Hamilton *et al.*, 1990); Prov. Tierra del Fuego, Argentina; Brazil (Olivier, 1965); Araucarian lakes, E of the Andes,

Chile (Thomasson, 1963b); Chile (Löffler, 1962); Lake Titicaca (Serruya & Pollinger, 1984); Bubali-pond, Aruba, Dutch Leeward Islands (Highler & Van Halewijn, 1991); Bolivian part of Lake Titicaca (Pinto, 1992)

Asplanchnopus de Guerne, 1888

Asplanchnopus bimavaramensis Dhanapathi, 1975

- Oriental region: Andhra Pradesh, S India (Dhanapathi, 1975); India (Sharma & Michael, 1980; Sudzuki, 1989)

Asplanchnopus dahlgreni Myers, 1934

- Palaearctic region: R. Volga, R.F. (Mordukhai-Boltovskoi, 1979)

- Nearctic region: Canada (Chengalath, 1977); Newfoundland & Labrador, NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980)

- Oriental region: Singapore & Malaysia (Karunakaran & Johnson, 1978; Sudzuki, 1989)

Asplanchnopus hyalinus Harring, 1913

- Palaearctic region: Peat bogs in the "Massif Central", France (Batut, 1965); Volga r. & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Pontic province of Europe (Bērziņš, 1978); Romania (Godeanu, 1961b); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Spain: Tarragona (Velasco, 1990)

- Oriental region: Andhra Pradesh, S India (Dhanapathi, 1975); India (Sharma & Michael, 1980; Sudzuki, 1989)

- Australian region: Vic. Aust. (Shiel & Koste, 1979);

- Neotropical region: Varzea near Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992)

Asplanchnopus multiceps (Schrank, 1793)

- Palaearctic region: Finland (Eriksen, 1969); Impoundment Kninicki, CSR (Kubicek, 1964); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Romania (Rudescu, 1960); NW Germany & Neusiedlersee, Austria. Also S and E Asia, N & S America, New Zealand, Egypt & Australia (Koste, 1987); All over Europe, Caucasus, Caspian area (Bērziņš, 1978); Lakes Breedewater, Quackjeswater, Vogelmeer, Island of Voorne, NL (Dresscher, 1976); River Danube (Enaceanu & Brezeanu, 1970); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Etang de la Tour, Paris suburb, Fr. (Pourriot, 1965); Lago Trasimeno, Italy (Taticchi, 1968)

- Nearctic region: Canada (Chengalath, 1977); Ontario, Canada (Chengalath *et al.*, 1971; Chengalath & Fernando, 1973); NW Canada (Chengalath & Koste, 1987); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); N America (Bērziņš, 1978); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1989); Laurentian Great Lakes (Stemberger, 1979); Grace Lake, N Canada (Moore, 1980); Mokelumne river, C California, USA (Salt *et al.*, 1978)

- Oriental region: India (Sharma & Michael, 1980); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Fernando, 1980; Fernando, 1969; Mendis & Fernando, 1962); Malaysia, Singapore, Sri Lanka, India, Philippines (Sudzuki, 1989); Ponds, ricefields & Lakes, Sri Lanka (Chengalath, Fernando & Koste, 1973); W & E Malaysia & Singapore (Fernando & Zankai, 1981); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1985)

- Australian region: Billabongs r. Murray, S Aust. (Shiel & Koste, 1983); NSW, Qld, Vic, Aust. (Shiel & Koste, 1979); NW Aust.: Magela Creek (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); North Otago, New Zealand (Russell, 1960)

- Neotropical region: Argentina, Chile, Paraguay, Peru, Panama (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Prov. Jujny & Corrientes, Argentina (José de Paggi, 1990); Prov. Jujny, Argentina (Olivier, 1965); Oriente & Sierra, Ecuador (Koste & Böttger, 1992)

Asplanchnopus syrinx (Ehrenberg, 1837)

- Palaearctic region: Japanese inland waters (Yamamoto, 1960a)

- Oriental region: Singapore (Karunakaran & Johnson, 1978); Malaysia & Indonesia (Sudzuki, 1989)

Note: *Species dubia* after Wiszniewski, 1954. *Unsichere Art* after Voigt, 1957 and Koste, 1978.

Asplanchnopus spec.

- Palaearctic region: River Loire, France (Lair, 1980; Lair & Sargos, 1981); Pond Eendenven, near Nijmegen, NL (Dresscher, 1976)

- Nearctic region: 5 small mountain lakes in Alberta, Can. (Anderson, 1968)

- Oriental region: Victoria reservoir, Sri Lanka (Piyasiri & Jayakody, 1991)

Atrochus Wierzejski, 1893*Atrochus tentaculatus* Wierzejski, 1893

- Palearctic region: W & C Eur. mountains, Carpathes, Pontic prov., C & E Eur. plains, UK (Bērziņš, 1978); Romania (Rudescu, 1960)
- Oriental region: 2 Kumaun Himalayan lakes, India (UP) (Sharma & Pant, 1984 & 1985)
- Australian region: Lago Camaleão, Amazonia, Brazil. First record outside of Europe (Koste, Robertson & Hardy, 1984)

Balatro Claparède, 1867**Balatro aciliata** (Radkewitsch, 1870)

- Palaearctic region: Carpathes, Pontic prov., E Eur. plains (Bērziņš, 1978); Romania (Rudescu, 1960)

Balatro anguiformis Issel, 1904

- Palaearctic region: Italy (Bērziņš, 1978)

Balatro calvus Claparède, 1867

- Palaearctic region: Italy, Alps, Balkan, C Eur. Lowland (Bērziņš, 1978); Cave "Zlata diera", E Slovakia (W Carpathians) (Kosel, 1973)

- Australian region: NT, Aust.: Magela Creek (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985)

- Neotropical region: Varzea (= lagoon) in Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982)

Balatro fridericiae Kunst, 1954

- Palaearctic region: C Eur. mountains (Bērziņš, 1978)

Beauchampia Haring, 1913**Beauchampia crucigera** (Dutrochet, 1812)

- Palaearctic region: Frankenland, Germany (Tiefenbacher, 1972); Dübener Heide, N Germany (Wulfert, 1960b); Pond in Landelies (Sambre R., Belgium) (Daems & Dumont, 1973); R. Oude Waal near Nijmegen, NL (Delbecque & Suykerbuyk, 1988); Romania (Rudescu, 1960); Darnsee near Epe, NW Germany (Koste, 1962); Landelies (Belgium) (De Ridder, 1986); R. Oude Waal, Maas & Yssel, NI (Dresscher, 1976); Romania (Rudescu, 1960); All over Europe (Bērziņš, 1978); Res. Sedlice, near Zeliv, Bohemia, CSR (Sladeckova, 1960a & 1962); Res. Sedlice, & r. Slapy, Bohemia, CSR (Sladeckova & Sladeczek, 1963); Res. Slapy, 30 km upstream from Prague, CSR (Sladeckova, 1960b); N Iceland (De Ridder, 1972)

- Nearctic region: Laurentian Great Lakes (Stemberger, 1979); Illinois & Kentucky, USA (Bērziņš, 1984); Canada (Chengalath, 1977); Kingston, Ontario, Canada (Nogrady, 1989); Mud pond, New Hampshire, USA (Wallace, 1977a); N America (Bērziņš, 1978)

- Oriental region: India (Sharma & Michael, 1980); Thailand & India (Sudzuki, 1989); Bung-Borapet, C Thailand (Koste, 1975a); Ricefields in NE Thailand (Heckman, 1979)

- Australian region: Billabongs in the r. Murray floodplain, NSW (Hillman & Shiel, 1991); NSW, Qld, Vic, Aust. (Shiel & Koste, 1979); NW Aust.: Magela Creek (Koste, 1981b); Tasmania (Koste & Shiel, 1986b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984)

- Neotropical region: Near Concepcion, Paraguay (Koste, 1986b); Near Panguana, Peru (Koste, 1988b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Oriente, Ecuador (Koste & Böttger, 1992); Oriente & Costa, Ecuador (Koste & Böttger, 1989); Amazonia, Brazil (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Brazil, Panama, Honduras, Columbia (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Beauchampia crucigera (Dutrochet) f. *candida* (Hudson, 1886)

- Palaearctic region: Alps, C Eur. mountains, UK (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Beauchampia spec.

- Oriental region: Singapore (Sudzuki, 1989)

Birgea Haring & Myers, 1922**Birgea enantia** Haring & Myers, 1922

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

Brachionus Pallas, 1966**Brachionus adisi** Koste & Hardy, 1984

- Neotropical region: Rio Jatapu & r. Uatuma, Amazonia, Brazil (Koste & Hardy, 1984)

Brachionus ahlstromi (Lindeman, 1939)

- Palaearctic region: Parczew area peat bogs, Poland (Radwan, 1974)

- Neotropical region: Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b; Serruya & Pollingher, 1984);

Rio Tocantins, Lago Maratu & L. Jacaretinga, Amazonia, Brazil (Schaden, 1977c)

Brachionus angularis Gosse, 1851

- Palaearctic region: Coastal Prefectures Tottori & Shimane-ken, Japan (Sudzuki & Fukuta, 1992); Lake Kinneret, Israel (Serruya & Pollinger, 1984); Rybnik dam reservoir, Poland (Krzanowski, 1979); Waterworks Jungfernheide, Berlin, G. (Ritterbusch, 1974); Darsz-Zingst estuary, N Germany (Arndt, 1991); Impoundment Twistatalsperre, Nordhessen G. (Meinel *et al.*, 1983); Ponds, pools & canals in Rambouillet, Yvelines, and at Gif-s-Yvette, near Paris, Fr. (Pourriot, 1965); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Fukushima Prefecture, Japan (Sudzuki, 1982); Serbian part of river Danube (Zivkovic, 1968 & 1987); Lago Trasimeno, Italy (Taticchi, 1968); Stechlin Lake, Germany (Ronneberger & Schönborn, 1985); All over Spain; Portugal: Evora (Velasco, 1990); Experimental ponds in Golysz, Poland (Zürek, 1974); Gravel pits along river Meuse, NL (Wibaut-Isebree Moens, 1964); Lake Biwa-ko, Japan (Yamamoto, 1960b); Ponds Gif-s-Yvette, near Paris, France (Pourriot & Leborgne, 1970); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/73); All over the world (Pejler, 1977); C & S Sweden (Bērziņš & Pejler 1987, 1989a, 1989b, 1989c, 1989d); Lake Suwa, Japan (Hanazato *et al.*, 1989); Romania (Rudescu, 1960); Lake Kinneret, Israel (Gophen, Serruya & Spataru, 1990); Po river, Italy (Ferrari *et al.*, 1989); Eutrophic waters in E Poland (Radwan & Popiolek, 1989); L. Taltowisko, Mazurian lakeland, Poland (Klimowicz, 1972); Alkal. Peteri-See, Hungary (Kertesz, 1960); Impoundment Kninicki, CSR (Kubicek, 1964); L. Mikolajkie & L. Sniardny, Maz. Lakeland, Poland (Kosicki, 1960); Zwanenwater & Callantsoog, N.H.; Muy on Texel; Van Hunenplak on Terschelling, NL (Leentvaar, 1967); Laarder Wasmeer, NL (Leentvaar, 1963c); Broads & peat pits in NW Overijssel, NL (Leentvaar, 1965); Delta of river Danube, Romania (Prunescu-Arion, 1989); Karstic lake Percile, Latium, Italy (Margaritora *et al.*, 1981); Lakes C Sweden (Pejler, 1965); Loch Leven, Scotland (May, 1986); District Ostrava, CSR (Dvorakova, 1960b); L. Buchseen, Bodensee (Einsle, 1966); L. Mindelsee, Bodensee (Einsle, 1967); C Finland (Eloranta, 1982b); L. Bolsena, L. Bracciano & L. Vico, C Italy (Ferrari, 1972); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); L. Palaeostomi, Georgia, R.F. (Haberman, 1982; Haberman & Laugaste, 1982); Area Bamberg-Höchstadt, Germany (Halbach, 1973); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Lake Biwa, Japan (Yamamoto, 1967 & 1968; Hillbricht-Ilkowska, 1983a & 1983b); L. Stechlinsee & L. Nehmitzsee, Brandenburg, Germany (Kasprzak & Ronneberger, 1982); Near Asperg, Württemberg, Germany (Klement, 1960); Lakes in Estonia (Haberman, 1978); Waterworks Harrem, near Köln, Germany (Bick & Scholtyssek, 1960); Finland (Eriksen, 1969); 3 small ponds in E Poland (Radwan, 1980); R. Loire, France (Lair, 1980); Lagoon La Ricarda, 10 km S of Barcelona; Lagoon of Cullera, 35 km S of Valencia; La Albufera de Valencia, Spain (Miracle *et al.*, 1988); Brackish waters along Span. Meditt. Sea (Miracle *et al.*, 1987); Mine waters in E Poland (Radwan & Paleolog, 1983); Lake Bielersee, CH (Bernier-Fankhauser, 1983 & 1986; Baugarter *et al.*, 1980); Lake Numasawa, Japan (Sudzuki *et al.*, 1983); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); L. Cullera near Valencia, Spain (Miracle & Vicente, 1983); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983; Zinevici & Teodorescu, 1990); Slovenia, ex-Yugoslavia (Markic, 1983); Lakes in Estonia (Mäemets, 1983); All Continents (Dumont, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Albufera de Valencia, Spain (Oltra & Miracle, 1984); "Altes Land" near Hamburg, Germany (Heckman, 1986); R. Guadalquivir, S Spain (Guisande & Toja, 1988); Hamburg area, Germany (Berghahn, 1979); Middle course Po river, Italy (Ferrari *et al.*, 1986); L. Balaton, Hungary (Zankai, 1984; Zankai & Ponyi, 1971a); Afghanistan (Bērziņš, 1961); Near Trebon, S Bohemia, CSR (Albertova, 1960); Impoundment Neunzehnhain, Germany (Althaus, 1976); Korea (Turner, 1986); Japanese inland waters (Yamamoto, 1960a); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960); Lac de Créteil, Paris suburb, France (Garnier & Lescher-Moutoué, 1983 & 1984); Pond Vasikkalampi, C Finland (Eloranta, 1981); L. Batlave impoundment, CSR (Jankovic, 1975); Sava Lake, ex-Yugoslavia (Kalafatic, 1978); Exp. fish culture station at Golysz, catchment area of the Upper Vistula river, Poland (Lemkowicz, 1984); L. Bialskie, E Poland (Radwan *et al.*, 1984); Impoundment Goczalkowice, Poland (Starmach, 1961); Reservoir at Kibbutz Na'an, C Israel (Dor *et al.*, 1987); Sewage purification plant West, A'dam, NL (Dresscher, 1960); Southwest islands of Japan (Sudzuki *et al.*, 1992); Moerdijk-Hollands Diep, NL (Leentvaar, 1980); Mouth regions of the Danube branches, Rom. & predeltaic area of the D. in the Black Sea (Popesco-Marinescu, 1974); R. Danube (Austria to Romania) (Wawrik, 1968); Hudsons Bay & Hoveton Gread Broad, East Anglia, UK (Timms & Moss, 1984); Funada-Ike pond, Chiba, Japan (Urabe, 1992); Lac Léman, Fr./CH (Balvay, 1989; Balvay & Laurent, 1981 & 1989); Lake near München, Germany (Rothhaupt, 1990); Canal de Séclin, Nord, France (Angeli, 1972 & 1975); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Niederrhein (Bringmann & Kühn, 1962); Lough Erne System, NW Ireland (Gibson *et al.*, 1980); River Oder, Germany (Walter & Scharf, 1961); Brundall, Nortfolk Broads, UK (Leah *et al.*, 1980); Hjarback Fjord, N Jutland, DK (Olrik *et al.*, 1984); Bakkerskooi & Wanneperveen, Overijssel, NL (Leentvaar, 1967b); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed &

flowing stretches of r. Danube, German-Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970); Lower Danube in Romania (Enaceanu, 1964); Lower Elbe, Germany (Grimm, 1968); Canal Leeds-Liverpool, UK (Galliford, 1960b); Forest pond in Lembeek (Halle, Belgium) (Deronde *et al.*, 1984; Van Elslande, 1975); Karagöl, near Izmir, Turkey (Ustaoglu, 1986); L. Akgöl, Selçuk-Izmir, Turkey (Ustaoglu & Balik, 1987); L. Kus (Turkey) (Ustaoglu & Balik, 1990a); L. Gebekirse, Izmir, Turkey (Ustaoglu & Balik, 1990b); Camargue, S France (De Ridder, 1960a & 1961); R. Yzer & Handzame Canal, Diksmuide, B. (De Ridder, 1960b); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Volga r. & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Rivers in Soviet Karelia, R.F. (Filimonova, 1976); Peridunar ponds Santa Olalla & Dulec, Doñana Nat. Park, Spain (Lopez *et al.*, 1991); Carp nursery ponds in the S Urals, R.F. (Lyubimova, 1974); Near Szarvas, Hungary (Tamas, 1975); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); River in W Kazakhstan, R.F. (Petrova, 1976); Dniester Estuary, R.F. (Polishchuk, 1976); Aral Sea spawning grounds, R.F. (Jerekeyev & Kazakhbayev, 1972); All over Europe; Caucasus, Caspian Sea, Asia minor (Bërziņš, 1978); " Grote vijver" fort 8, Hoboken (Antw., B) (De Smet *et al.*, 1986); " Kleine vijver" fort 8, Hoboken (Antw., B) (De Smet *et al.*, 1989); Moat fort Merksem, Antwerp, Belgium (De Smet *et al.*, 1987); Rivers, tributary to Kiev reservoir, R.F. (Polishchuk, 1976); Krivoy reg. power plant, Ukraina, R.F. (Sergeyeva *et al.*, 1989); Groszer Binnensee, Baltic coast, Germ. (Lampert & Rothhaupt, 1991); Inundation area of Danube delta, Rom. (Dorobantu, 1964); River Grabia basin, Poland (Pawlowski 1960, 1968, 1970 & 1973); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); Lac de Créteil, Paris suburb, France (Pourriot *et al.*, 1984; Pourriot & Rougier, 1991; Lescher-Moutoué *et al.*, 1985); L. Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Szezecin Bay, Poland (Wiktor, 1968); Latorica, E Slovakian lowland, CSR (Terek, 1990a); Canals in Hran area, CSR (Terek, 1990c); Etang du Brochet & E. du Bout, Rambouillet, Fr.; Mare de la Bénerie (E. de Limours), France (Pourriot *et al.*, 1969); Small lakes SE of Gothenburg, W Sweden (Morling & Pejler, 1990); Coal mine res. & r. Swinka, Lublin coal basin, E Poland (Radwan *et al.*, 1991); Spanish reservoirs (de Manuel, 1991); Kanev reservoir (Dnieper), R.F. (Mogil'chenko, 1986); Lower Volga, R.F. (Chuykov & Merkulov, 1986); Terek delta, Astrakhan peninsula, R.F. (Chuykov & Deneskin, 1985); Soviet section of r. Danube (Parchuk, 1985); Chrepet' power plant, S of Moscow, R.F. (Kuznetsova, 1982); Rybinsk reservoir, R.F. (Kartasheva & Lebedeva, 1981); Canal Ysebek, Hamburg, Germany (Caspers, 1964); L. Frederiksborg, DK (Jørgensen *et al.*, 1983); River Svratka, CSR (Kubicek, 1968); Lac Aydat, Massif Central, France (Lair, 1978); Leczna-Wlodawa lake district, E Poland (Kowalczyk & Radwan, 1982; Radwan, 1984); Impoundment Weidatalsperre, E Thür., Germ. (Hoffmann, 1966); University pond, Gent, Belgium (Dumont *et al.*, 1975); R. Vistula, in the Warsaw area, Poland (Klimowicz, 1981); Canal of r. Odra, Poland (Klimowicz, 1979); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); R. Loire, France (Lair *et al.*, 1978); Side-arm of r. Danube, near Bratislava, CSR (Lichardova, 1964); Small water bodies in the Mikolajkie area, Pol. (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); L. Victoria, Oltenia area, Romania (Marx *et al.*, 1967); R. Moldova, tributary of Danube r., Rom. (Prunescu-Arion, 1968); Lough Neagh, N Ireland (Andrew & Fitzsimons, 1992); Lakes in C Sweden (Pejler, 1964); Pond in Gif-s-Yvette, France (Pourriot & Leborgne, 1970); 2 ponds in Gif-s-Yvette, France (Pourriot, 1972); Black Sea (Rudescu, 1962); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Bulgarian bank of r. Danube (Naidenow, 1963); Ponds of Oltina, SE Dobrogea, Rom. (Popescu-Gorj & Costea, 1961); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); R. Loire, in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Lakes in the Leczna-Wlodawa area, E Poland (Radwan, 1976); Hamburg area, Germany (Rühmann, 1961 & 1965a); R. Oltet & its principal tributaries, Rom. (Rogoz, 1972); Water sheets in the Hamburg area, Germ (Rühmann, 1964); R. Alster in Hamburg, Germ. (Rühmann, 1967); Middle course of r. Loire, France (Lair & Sargos, 1981); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Serbian section of r. Danube (Zivkovic, 1968); Lac Léman, Fr./CH (Martin, 1961; Balvay & Laurent, 1990a & 1990b); R. Warnow, near Rostock, Germany (Keil *et al.*, 1963); R. Danube and its tributaries (Bothar, 1982); Lac de Créteil, Paris suburb, France (Pourriot & Snell, 1983); Pelagic zone of L. Nobel, Ukraina (Polishchuk, 1991); Vistula lagoon, Poland (Adamkiewicz-Choinacka & Rozanska, 1990); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Balearic archipelago, Spain (de Manuel *et al.*, 1992); Highly eutrophic lake Czarna Kuta, Poland (Brinska *et al.*, 1976); All over the Netherlands (Dresscher, 1976); El Ghab area, Syria (De Ridder, 1965); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); L. Neusiedlersee, Austria (Donner, 1979); All over Belgium (De Ridder, 1986); Boatracing canal in Gent, Belgium (De Maeseneer, 1972, 1973, 1976 & 1978; Vanderbeken, 1977; Coussement, 1982); 5 localities in Belgium (De Maeseneer, 1979); Brackish waters near Brugge, Belgium (De Ridder & Verheye, 1980); Brabantse Biesbosch, NL (Leentvaar, 1960); L. Fasaneriesee, eutrophic gravel pit, München, Germany (Walz, 1983); Lake Constance, Germany (Schulz, 1961); Lakes Doftana & Brebu, Romania (Fesci, 1969); Lakes of the Black Sea estuary, Romania (Godeanu, 1970b); Ellesmere district, UK (Galliford, 1960a); Knowsley Park, Liverpool,

UK (Galliford, 1964); Lakes Uiversnest & Meeuwenven, near Nijmegen, NL (Geelen, 1969); Distr. Hoge Venen & Ardennen, Belgium (Gijssels *et al.*, 1976); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Alderfen Broad, Norfolk, UK (Cryer & Townsend, 1988); Lake Trummen, S Sweden (Andersson *et al.*, 1975); Barther Bodden, Baltic Sea, Germany (Arndt *et al.*, 1981 & 1984a); River Klyas'ma, R.F. (Bogoslowski, 1961); Impoundment "EisernesTor", Danube (Brezeanu & Peten, 1973); Heiluntsian province, China (Bogoslowski, 1962); L. Crapina, delta of r. Danube, Romania (Dorobantu, 1964); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Lake Constance, Germany (Pauli, 1989); L. Zwemlust, prov. Utrecht, NL (Van Donk, Gulati & Grimm, 1990); Carp ponds in S Poland (Zurek, 1980); Lake Balaton, Hungary (Zankai & Ponyi, 1970); Lake Biwa, Japan (Yamamoto, 1968); Minorca, Spain (de Manuel, 1990); Darnsee near Epe, NW Germany (Koste, 1962); L. Orog-nur, Gobi desert, Mongolia (Koste & Wulfert, 1964); River Hase, NW Germany (Koste, 1976b); Lake near München, Germany (Rothhaupt, 1990a & 1990b); Lake Kasumigaura, Japan (Hanazato, 1990); L. Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); L. Alfsee, NW Germany (Koste & Poltz, 1987); L. Mälaren, Sweden (Grönberg, 1975); Danube river, Romania (Popescu-Marinescu *et al.*, 1990); Norfolk Broads, UK (Irvine *et al.*, 1990); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Loch Rusky, Scotland (Romo, 1990); Lac Aydat, Massif Central, France (Oulad Ali *et al.*, 1990); C & S Sweden (Pejler & Bērziņš, 1989); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b; Claus & Dall'Asta, 1972; Coussement, 1976; Martens, 1985); River Lieve, Gent, Belgium (De Smet & Evens, 1970); R. Meuse Liégeoise, Belgium (Baiverlin, 1984); Acid ponds in Lower Austria (Wawrik, 1972)

- Nearctic region: Colorado, USA (Turner, 1988); Lake Brooker, Florida, USA (Scheda & Cowell, 1988); Illinois river, USA (Brown *et al.*, 1989); Near Newhaven, Connecticut, USA (Gilbert, 1963b); Canada (Chengalath, 1977); Ontario, Canada (Chengalath *et al.*, 1971; Chengalath & Fernando, 1973); Whitacre Pond, Northampton Co, Pa, USA (Williamson, 1987); Lake Michigan & Milwaukee Harbor (Stemberger, 1974); 2 lakes in S Ontario, Canada (Brandl & Fernando, 1984); Highland L., Little Swede No.1 L. & Standley L., Colorado, USA (Pennak, 1966); Ontario, Can., Illinois & Kentucky, USA (Bērziņš, 1984); Near New Haven, Connecticut, USA (Snell, 1989); Old woman Creek, Ohio, USA (Huron r. estuary) (Havens, 1991); Kalamazoo river, Michigan, USA (Prins & Davis, 1966); Northern Michigan inland lakes (Stemberger, 1990); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Lakes at Saltee, California, USA (Nogrady, 1982); Triangle Lake, Portage Cy, Ohio, USA (Havens, 1991); Laurentian Great Lakes (Stemberger, 1979); Lakes in Florida (Dawes *et al.*, 1987); Experimental ponds, C Florida (Fry & Osborne, 1980); Lake Sangchris, Illinois, USA (Harmsworth, 1975); Severson Lake, Minnesota, USA (Comita, 1972); Bay of Quinte, L. Ontario, Canada (Nogrady, 1988); Hastings Lake, C Alberta, Canada (Baker, 1979a); Bayou de Siard, Monroe, La, USA (Gallagher, 1965); L. Erie, Canada (Davis, 1969); Exp. ponds near Bakersfield, Kern Co, California (Hurlbert *et al.*, 1972); Lake 122, NW Ontario, Canada (Schindler & Novén, 1971); Silver Lake, Adirondack mts., NY State (Siegfried, 1991); San Fransisco, USA & L. Hodges, Co San Diego, California (Nogrady, 1983)

- Oriental region: Victoria reservoir, Sri Lanka (Piyasiri & Jayakody, 1991); Village pool & rice paddy, Patan, Nepal (Daems & Dumont, 1974); Large & small lakes, Sri Lanka (Cheng., Fernando & Koste, 1973); Roshanara Tank, Naini Lake, Indranagar Tank, Stocking Tank & Nursery Tank, Delhi, India (George, 1966); Ajwa reservoir, near Baroda, Gujarat, W India (Joyangaudar, 1980); Fishpond in Barrackpore, W Bengal State, India (Michael, 1968 & 1969); Kashmir Valley & High mts. of Kashmir Himalaya (Zutshi *et al.*, 1980); Parakrama Samudra, Sri Lanka (Duncan, 1983a; Duncan & Gulati, 1981); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); Andhra Pradesh, India (Dhanapathi, 1974b); Reservoir Parakrama Samudra, Sri Lanka (Duncan, 1983a, 1983b & 1984; Duncan & Gulati, 1983a & 1983b); E & W Malaysia & Singapore (Fernando & Zankai, 1981); River Yamuna, India (Rai, 1974; Novotna-Dvorakova, 1963); Fishponds in Kalyani, W Bengal, India (Jana *et al.*, 1980); Panjab State, NW India (Sharma, 1976 & 1980); W Bengal, NE India (Sharma, 1979a); Bhairideverkop pond, Kamataka State, India (Patil & Gonder, 1985); Orissa, E India (Sharma, 1978c); 2 sewage channels of Gwalior, India (Saksena & Kulkarni, 1986); Bangkok, Thailand (De Ridder, 1971); Sri Lanka (Fernando, 1969); Kerala, S India (Nayar & Nair, 1969); Storage reservoir Ajwa, near Baroda, India (Wulfert, 1966); L. Nilnag & Sunda lakes (Serruya & Pollingher, 1984); 2 ponds at Pilani, Rajasthan, India (Nayar, 1970); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); L. Surinsar, Yammu (J & K), India (Jyoti & Sehgal, 1979); Peninsula Malacca (Dunn, 1970); Nimeta water works, near Baroda, India (Wulfert, 1966); 2 tanks near Nagpur, India (Arora, 1966c); Oxidation pond in Nagpur, C India (Arora, 1962a & 1966d); Java (Green & Oey, 1974); India (Sharma & Michael, 1980); Largely spread over India (Sharma, 1983); Peninsula Malacca, SE Asia (De Maeseneer, 1976); Lake Parakrama, Sri Lanka (Fernando, 1980a); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Fernando, 1980a); Buckingham Canal, Madras, India (Ravichandran *et al.*, 1988); Singapore & Malaysia (Karunakaran & Johnson, 1978); Rajasthan, India

(Nayar, 1968); Taiwan, Thailand, Malaysia, Singapore, Indonesia, Sri Lanka, India, Philippines (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988)

- Australian region: Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); S & W Aust., Qld, Vic (Shiel & Koste, 1979); Rivers & lakes all over Australia (Shiel, 1983); Pancontinental in Aust., incl. Tasmania (Koste & Shiel, 1987b); Murray river at Mannum, S Aust. (Koste, 1979; Shiel 1979); Billabongs of river Murray, SE Aust. (Shiel & Koste, 1983); SW Aust. (Koste, Shiel & Brock, 1983); Reservoir SE Aust. (Shiel *et al.*, 1987); Tasmania (Shiel, Koste & Tan, 1989; Koste & Shiel, 1987); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Darling river, S Aust. (Shiel, 1985; Shiel & Walker, *s.d.*); S Tasmania (Shiel, Koste & Tan, 1988); Rivers & reservoirs of the Murray-Darling system (Shiel, 1986); Billabongs in the Murray r. floodplain, NSW (Hillman & Shiel, 1991); Enfield & Christchurch, New Zealand (Russell, 1960); L. Mumblyn, freshwater temperate Aust. crater lake (Green, 1981)

- Neotropical region: S Brasilia (Arcifa, 1984); Embalse Rio Tercero Fish Culture Station Cordoba Prov., Argentina; Lago do Passarino (Marinone & Zagarese, 1991); L. Xolotlan, L. Tiscopa & Pond UCA, Nicaragua (Moreno *et al.*, 1992); River Parana, Argentina (Paggi & J. de Paggi, 1984; José de Paggi, 1985); Argentina (Modenutti & Claps, 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Bolivian side of L. Titicaca (Ueno, 1967; Pinto, 1992); Eutrophic water Santa Fé, Argentina (José de Paggi, 1976a); River Santa Fé, Argentina (José de Paggi, 1976b); Saladillo r. basin, Argentina (José de Paggi & Koste, 1988); Arroyo Rodriguez, prov. of Buenos Aires, Arg. (Modenutti, 1987); Provinces in NW Argentina (José de Paggi, 1989); Paraguay, Brazil, Bolivia, Venezuela, Colombia, Argentina, Honduras, Panama (Koste & José de Paggi, 1982); Near Concepcion, Paraguay (Koste, 1986b); Chilean lakes (Schmid-Araya, 1991); Lake Xolotlan, Nicaragua (Cisneros & Mangas, 1991); Prov. Chubut, Mendoza, La Rioja, Salta, Tucuman, Cordoba, Santiago del Estero, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Caribbean part of the Neotropical region (De Ridder, 1977); Bulabi pond, Aruba, Dutch Leeward Islands (Higler & van Halewijn, 1991); Argentine Patagonia (Kuczynski, 1987b); Aruba, Bonaire, Curaçao, Caribbean islands, Costa Rica, Cuba, El Salvador (Collado *et al.*, 1984); Reconquista river, Argentina (Kuczynski, 1991); Lake Rio Claro, Orinoco floodplain lake, Ven. (Vasquez & Rey, 1992); Lake Tinco, Orinoco floodplain lake, Ven. (Hamilton *et al.*, 1990); Flooded savanna at Montecal, Venezuela (Michelangelli *et al.*, 1979/80); Prov. Buenos Aires, Arg.; Brazil; Paraguay (Olivier, 1965); Antilles françaises (Pourriot, 1975); Laguna Gomez, NW of Buenos Aires prov., Arg. (Boltovskoy *et al.*, 1984); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992)

Brachionus angularis Gosse, f. *apicatus* Tschugunoff, 1921

- Palaearctic region: Lakes of the sea coast of the Dobrujsja; L. Tabacairie, Agigea & Tatlageae, Rom. (Rodewald-Rudescu & Godeanu, 1961); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Obretin lake, Danube delta, Rom. (Neagu-Godeanu *et al.*, 1968)

Brachionus angularis Gosse, f. *bidens* Plate, 1886

- Palaearctic region: Brabantse Biesbosch, NL (Leentvaar, 1960); Romania (Rudescu, 1960); Lakes in Estonia (Haberman, 1978); Lake Balaton, Hungary (Zankai & Ponyi, 1971a); Impoundment Kninicki & r. Svratka, CSR (Kubicek, 1964); Lake Muy on Texel island, NL (Leentvaar, 1967); L. Vogelmeer near Ymuiden & Breedewater on Voorne, NL (Leentvaar, 1963); Delta of r. Danube, Rom. (Prunescu-Arion, 1989); Bicaz water power reservoir, Rom. (Battes *et al.*, 1971); Lago Maggiore, Italy (Tonolli, 1962); Koyama-Ike, coastal pond in Japan (Sudzuki & Fukuta, 1989); Imp. Helme, near Kelbra (Kyffhäuser), G. (Heynig, 1968); Impoundment in E Bohemia, CSR (Sladeczkova & Sladeczek, 1960); Lake Balaton, Hungary (Zankai, 1968); Luka nad Olzon, near Ostrava, Silesia, CSR (Sladeczek, 1969); Canal de Séclin, Nord, France (Angeli, 1972); All over Europe; Caucasus; Caspian area; Asia minor (Bērziņš, 1978); Soviet section of r. Danube, R.F. (Parchuk, 1985); Lakes of the Black Sea shore (Godeanu, 1970b); Barabinskaya power plant, near Novosibirsk (Volgin *et al.*, 1982); In many waters in Turkey (Emir, 1991); Japanese inland waters (Yamamoto, 1960a); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960); Southwest islands of Japan (Sudzuki *et al.*, 1992); Bakkerskooi & Wanneperveen, Overijssel, NL (Leentvaar, 1967b); Artificial lakes near Köln, Germany (Trahms, 1972); Lower Danube in Romania (Enaceanu, 1964); Ponds in Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); All over the Netherlands (Dresscher, 1976); R. Danube (Enaceanu & Breceanu, 1970); R. Elbe estuary, Germany (Schulz, 1961); New impoundment in the CSR (Kubicek, 1968); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Karelian inland waters, R.F. (Kutikova, 1965); Black Sea (Rudescu, 1961); Bulgarian bank of r. Danube (Naidenow, 1963); Ponds of Oltina, SE Dobrogea, Rom. (Popescu-Gorj & Costea, 1961); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Lake Chenbu, Changjiang basin, China (Weu, 1992); Hamburg area, Germany (Rühmann, 1961); Aegean lakes, Macedonia, ex-Yugosl. & Greece (Serafimova-Hadzisce, 1974); Serbian part of r. Danube, inundation zone (Zivkovic, 1987); Spain: Barcelona & Léon (Velasco, 1990); Coastal prefectures Tottori & Shimane-Ken, Japan (Sudzuki & Fukuta, 1992); Lake Biwa-ko, Japan (Yamamoto, 1960b);

Reservoir Vrané, 17 km S of Prague, CSR (Sladeczek, 1962); Pools Erpewaaien, near Nijmegen, NL (Leentvaar, 1970)

- Nearctic region: Altiplanicio Central, Mexico (Vilaclara & Sladeczek, 1989); Laurentian Great Lakes (Stemberger, 1979); Lake Ontario, Canada (Nauwerck, 1978)

- Oriental region: Taiwan (Sudzuki, 1988); Singapore & Malaysia (Karunakaran & Johnson, 1978); Taiwan, Malaysia, Singapore, Indonesia, India (Sudzuki, 1989); Singapore & Taiwan. Cosmopolitan (Sudzuki, 1991); E & W Malaysia & Singapore (Fernando & Zankai, 1981); Sangham, Nagpur, India (Arora, 1962b)

- Australian region: Vic, Aust. (Shiel & Koste, 1979); Lake Mulwala, Vic, Aust. (Shiel, 1983); Qld & Vic in Aust. Rare. Probably cosmopol. (Koste & Shiel, 1987b)

Brachionus angularis bidens Plate, f. *papillosus* Sudzuki, 1992

- Palaeartic region: Southwest islands of Japan (Sudzuki, 1992)

Brachionus angularis Gosse f. *chelonis* Ahlstrom, 1940

- General: Palaeartic, nearctic & neotropical regions (Pejler, 1977); N & S America, Europe (Dumont, 1983)

- Palaeartic region: Japanese inland waters (Yamamoto, 1960a); C Eur. lowland (Bērziņš, 1978); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990)

- Nearctic region: N America (Bērziņš, 1978); Illinois, USA (Bērziņš, 1984)

- Oriental region: Peninsula Malacca, SE Asia (De Maeseneer, 1976)

- Neotropical region: Freshwaters in Argentina (Paggi, 1973); Brazil, Argentina, Surinam (Koste & José de Paggi, 1982); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Brokopondo Lake, Surinam (Leentvaar, 1979)

Brachionus angularis Gosse, f. *daitojimensis* Sudzuki, 1992

- Palaeartic region: Southwest islands of Japan (Sudzuki, 1992)

Brachionus angularis Gosse, f. *irregularis* Wulfert, 1956

- Palaeartic region: Eutrophic ponds near Bucarest; pond Ceruica & in the Balta Alba, Romania (Rodewald-Rudescu & Godeanu, 1961)

Brachionus angularis Gosse, f. *murphyi* Sudzuki, 1989

- Oriental region: Singapore (Sudzuki, 1989 & 1991)

Brachionus angularis Gosse, f. *orientalis* Sudzuki, 1989

- Palaeartic region: Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992)

- Oriental region: Singapore (Sudzuki, 1989)

Brachionus angularis Gosse, f. *pseudodolabratus* Ahlstrom, 1940

- Palaeartic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)

- Neotropical region: Brazil, Venezuela, Panama, Honduras (Koste & José de Paggi, 1982); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989)

Brachionus angularis Gosse, f. *pseudokeikoa* Sudzuki, 1992

- Palaeartic region: Southwest islands of Japan (Sudzuki, 1992; Sudzuki *et al.*, 1992); Coastal prefectures Tottori & Shimane-ken, J. (Sudzuki & Fukuta, 1992)

Brachionus baylyi Sudzuki & Timms, 1977

- Australian region: Myall lakes, NSW, Aust. (Sudzuki & Timms, 1977); NSW, Aust. (Shiel & Koste, 1979); Myall Lakes, NSW. Australian endemic (Shiel, 1983); Australia (Dumont, 1983); Endemic to Aust. Known only from the Myall lakes, NSW (Koste & Shiel, 1987b); Australasia (Koste, 1979)

Brachionus bennini Leiszing, 1924

- Palaeartic region: Po river, Italy (Ferrari *et al.*, 1989); River Klyas'ma, R.F. (Bogoslowski, 1961); Prov. Heiluntian, China (Bogoslowski, 1962); R. Loire, France (Lair, 1980 & 1978); Brackish lagoons along Sp. Mediterranean Sea (Miracle *et al.*, 1987); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983); All continents (Dumont, 1983); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Brabantse Biesbosch, NL (Leentvaar, 1960; Dresscher, 1976); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Romania (Rudescu, 1960); All zoogeographical regions (Pejler, 1977); Lake Donk, Overmere, Belgium (Claus & Dall'Asta, 1972); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Medium-size rivers, tributary to Kiev res., R.F. (Polishchuk, 1987); Southwest islands of Japan (Sudzuki *et al.*, 1992); Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); All over Europe (Bērziņš, 1978); Terek delta, Astrakhan peninsula, R.F. (Chuykov & Deneskin, 1985); Soviet section of the Danube (Parchuk, 1985); Cherepet' power plant, S of Moscow, R.F. (Kuznetsova, 1982); Serbian section of r. Danube (Zivkovic, 1968 & 1987); Waldviertel area of Lower Austria (Naidenow & Wawrik, 1984); Bay Messara on Creta Island, Greece (De Ridder, 1967d); Overmere-Berlare, Belgium (De Ridder, 1986); R. Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary, Germany

(Schulz, 1961); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of r. Odra, Poland (Klimowicz, 1979); L. Victoria, Oltania area, Romania (Marx *et al.*, 1967); R. Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); R. Loire in St.-Laurent-les-Eaux, France (Pourriot, 1965); Pelagic zone of Leczna-Wlodawa lakes, Poland (Radwan, 1975); Middle course of r. Loire, France (Lair & Sargos, 1981); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pond in Rambouillet, Yvelines, France (Pourriot, 1965); Garden ponds in Tokyo, Japan (Sudzuki, 1975)

- Nearctic region: N America (Bērziņš, 1978); Kalamazoo river, Michigan, USA (Prins & Davis, 1966)

- Oriental region: River Yamuna, India (Novotna-Dvorakova, 1963; Rai, 1974); Taiwan, Indonesia, India (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Taiwan. Cosmopolitan (Sudzuki, 1991); Mizoram, N India (Sharma, 1987)

- Australian region: S Aust. & Vic (Shiel & Koste, 1979); River Murray & billabongs, Aust. (Shiel, 1983); Cosmopolitan. Qld, Vic, S Aust. (Koste & Shiel, 1987b); Australasia (Koste, 1972f & 1979); Murray river at Mannum, S Aust. (Shiel, 1979)

- Neotropical region: Brazil (Koste & José de Paggi, 1982; Koste & Robertson, 1983); Lago Biunçu, Amazonia, Brazil (Schaden, 1977c)

***Brachionus bidentatus* Anderson, 1889**

- Palaearctic region: Albufera de Valencia, Spain (Oltra & Miracle, 1984); "Altes Land" near Hamburg, Germ. (Heckman, 1986); R. Guadalquivir, S Spain (Guisande & Toja, 1988); Lagoon of Cullera, 35 km S of Valencia, Sp. (Miracle & Vicente, 1983); La Albufera de Valencia, Spain (Miracle *et al.*, 1988); Brackish waters in Sp. Mediterr. Sea (Miracle *et al.*, 1987); All continents (Pejler, 1977; Dumont, 1983); R. Loire, France (Lair *et al.*, 1978; Lair, 1980); W & C Eur. mountains, Hungarian plain, W Eur. plain (Bērziņš, 1978); Lake Donk, Overmere, Belgium (Claus & Dall'Asta, 1972); Spanish reservoirs (de Manuel, 1991); R. Elbe estuary, Germany (Schulz, 1961); Pool in Pioliers village, near Vichy, France (Pourriot, 1974); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Middle course of r. Loire, France (Lair & Sargos, 1981); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Spain: Sevilla & Valencia (Velasco, 1990)

- Nearctic region: Illinois, USA (Bērziņš, 1984); Kingston, Ontario, Canada (Nogrady, 1989); Old woman Creek & Old Woman Creek estuary, Huron, Ohio, USA (Havens, 1991); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Laurentian Great Lakes (Stemberger, 1979); Lake Sangchris, Illinois, USA (Harmsworth, 1975); Near Monroe, Louisiana, USA (Gallagher, 1966); Exp. ponds near Bakersfield, Kern Co, California (Hurlbert *et al.*, 1972); USA (Olivier, 1965)

- Oriental region: Dar Lake, Himalayan Lakes, India (Vass & Zutshi, 1983); 2 Kumaun Himalayan Lakes, India (Sharma & Pant, 1984 & 1985); Orissa, E India (Sharma, 1978c); 2 sewage channels of Gwalior, India (Saksena & Kulkarni, 1986); India (Olivier, 1965; Sharma & Michael, 1980; Sharma, 1983); River Yamuna, India (Novotna-Dvorakova, 1963; Rai, 1974); Sri Lanka (Fernando, 1980); Shallow ponds in Delhi, India (George, 1961); Singapore (Karunakaran & Johnson, 1978); Taiwan (Sudzuki, 1988); Malaysia & Singapore (Sudzuki, 1989); Village pool & rice paddy at Patan, Nepal (Daems & Dumont, 1974); Sri Lanka, Sigúyatank. Also known from India and from Malaysia (Chengalath, Fernando & Koste, 1974); Roshana tank, Naini Lake, Indranagar tank, Stocking tank & Nursery tank, Delhi, India (George, 1966); Andhra Pradesh, India (Dhanapathi, 1974b); E & W Malaysia & Singapore (Fernando & Zankai, 1981); Panjab State, NW India (Sharma, 1976 & 1980); W Bengal, NE India (Sharma, 1979a)

- Australian region: Vic, Aust. (Shiel & Koste, 1989); Australia (Shiel, 1981); Lakes all over Australia (Shiel, 1983); Cosmopolitan, predominantly in warm stenotherm tropical and subtropical waters. NT, Qld, Vic, S Aust. (Koste & Shiel, 1987b); NW Aust.: Magela Creek area (Koste, 1981); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Darling river, S Aust. (Shiel, 1985); Murray-Darling system, Aust. (Shiel, 1986); Canterbury, New Zealand (Russell, 1960)

- Neotropical region: Saladillo river basin, Argentina (José de Paggi & Koste, 1988); Argentina (Modenutti & Claps, 1988); Bolivia, Peru, Argentina (Koste & José de Paggi, 1982); Lower Orinoco river and its delta, Ven. (Vasquez & Rey, 1989); Prov. Chubut, Salta, Chaco, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Reconquista river, Argentina (Kuczynski, 1991); Prov. Buenos Aires, Argentina (Olivier, 1965); Mato Grosso, Brazil (Turner & Da Silva, 1992); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992)

- Antarctic region: In 25 de Mayo (King George) Island, South Shetland (62°14S-58°38'W) (Kuczynski, 1987a)

***Brachionus bidentatus* Anderson, f. *adorna* Wulfert, 1966**

- Oriental region: W Bengal, NE India (Sharma, 1979a); Panjab State, NW India (Sharma, 1980); Impoundment Ajwa, near Baroda, India (Wulfert, 1966)

***Brachionus bidentatus* Anderson, f. *crassispineus* Hauer, 1963**

- Palaearctic region: Spanish reservoirs (de Manuel, 1991); Southwest islands of Japan (Sudzuki *et al.*, 1992)

- Oriental region: India (Sharma, 1983)

Note: Not yet recorded from Australia (Koste & Shiel, 1987b)

Brachionus bidentatus Anderson, f. *inermis* Rousselet, 1906

- Palaearctic region: Spain: Madrid (Velasco, 1990)

- Nearctic region: Illinois, USA (Bērziņš, 1984)

- Neotropical region: Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Saladillo river basin, Argentina (José de Paggi & Koste, 1988); Prov. Chubut, Santa Fé & Buenos Aires, Arg. (José de Paggi, 1990); Argentine Patagonia (Kuczynski, 1987b); Reconquista river, Argentina (Kuczynski, 1991)

- Antarctic region: Barry Islet, Marguerite Bay (Kuczynski, 1987a)

Note: Littoral waters, tropics & subtropics. Not recorded from Australia (Koste & Shiel, 1987b)

Brachionus bidentatus Anderson, f. *jirovici* Bartos, 1946

- Palaearctic region: C Eur. mountains (Bērziņš, 1978); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992); Serbian part of river Danube (Zivkovic, 1987)

- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983)

- Australian region: Vic, Aust. (Shiel & Koste, 1979); Australia (Shiel, 1981); River Murray, S Aust. (Shiel, 1983); Murray-Darling system, NT, Aust. (Koste & Shiel, 1987b)

Brachionus bidentatus Anderson, f. *testudinarius* Jakubski, 1912

- Palaearctic region: Minorca, Spain (de Manuel, 1990); Balearic archipelago, Spain (de Manuel *et al.*, 1992); Southwest islands of Japan (Sudzuki *et al.*, 1992)

- Oriental region: India (Sharma, 1983); Taiwan, Singapore, Sri Lanka, India (Sudzuki, 1989); Taiwan. Species of warm waters (Sudzuki, 1991)

- Australian region: Vic, Aust. (Shiel & Koste, 1979; Koste & Shiel, 1980c); Australia (Shiel, 1981); Lakes & billabongs in NT and E Aust. (Shiel, 1983); NT; Rare (Koste & Shiel, 1987b); Alligator rivers area, NT (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984)

Brachionus bidentatus minor Koste & Shiel, 1980

- Australian region: Australia (Shiel, 1981); S Aust. (Koste & Shiel, 1980c); R. Murray in Mannum, S Aust. Australian endemic (Shiel, 1983; Koste 1980); Endemic. r. Murray, S Aust. (Koste & Shiel, 1987b)

Brachionus budapestinensis Daday, 1885

- Palaearctic region: Pools r. Elbe, CSR (Dvorakova, 1961); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Delta of r. Danube, Romania (Rudescu, 1960; Prunescu-Arion, 1989; Godeanu & Zinevici, 1983; Zinevici & Teodorecu, 1990); Palaearctic, Nearctic, Oriental & Neotropical regions (Pejler, 1977); Heiluntian province, China (Bogoslawski, 1962); Impoundment "Eisernes Tor", Danube, Rom. (Brezeanu & Peten, 1973); R. Guadalquivir, Spain (Guisande & Toja, 1988); Middle course r. Po, Italy (Ferrari *et al.*, 1986); L. Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); L. Numasawa, Japan (Sudzuki *et al.*, 1983); Slovenia, ex-Yugoslavia (Markic, 1983); All continents (Dumont, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); C & S Sweden (Pejler & Bērziņš, 1989); Po river, Italy (Ferrari *et al.*, 1989); River Hase, NW Germany (Koste, 1976b); Middle course of r. Loire, Fr. (Lair & Sargos, 1981); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Paris and other localities in France (de Beauchamp, 1966); Inundation area of Danube delta, Rom. (Dorobantu, 1964); River Grabia basin, Poland (Pawlowski, 1960); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Mare de la Bénérie (étang de Limours), Fr. (Pourriot *et al.*, 1969); Volga river, R.F. (V'yushkova & Lakhnova, 1974); Peridunar pond Dulce, Doñana Nat. Park, Sp. (López *et al.*, 1991); All over Europe; Caucasus, Caspian Sea (Bērziņš, 1978); Romania (Rudescu, 1960); Spanish reservoirs (de Manuel, 1991); Soviet section of r. Danube (Parchuk, 1985); Acid ponds in Lower Austria (Wawrik, 1972); Japanese inland waters (Yamamoto, 1960a); Reservoir at Kibbutz Na'am, C Israel (Dor *et al.*, 1987); Southwest islands in Japan (Sudzuki *et al.*, 1992); Lower Danube in Romania (Enaceanu, 1964); Mouth areas of the Danube branches, Rom. & predeltaic area of the Dan. in the Black Sea (Popescu-Marinescu, 1974); River Danube, from Austria to Romania (Wawrik, 1968); Lake St. Rémy, France (Pourriot & Snell, 1983); Ponds in Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Brabantse Biesbosch & surroundings, NL (Dresscher, 1976); El Ghab area, Syria (De Ridder, 1970); River Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary, Germany (Schulz, 1961); Lakes N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Pond in municipal park, Vienna, Austria (Rühmann, 1965b); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Moats of castle & ponds in Rambouillet, Fr. (Pourriot, 1965); Fukushima prefecture, Japan (Sudzuki, 1982); Serbian part of r. Danube (Zivkovic, 1987); Spain: Sevilla (Velasco, 1990); Coastal prefectures Tottori & Shimane-ken, J. (Sudzuki *et al.*, 1992); Lake Kinneret, Israel (Serruya & Pollingher, 1984)

- Nearctic region: Illinois & Kentucky, USA (Bērziņš, 1984); Lake Brooker, Florida, USA (Scheda &

Cowell, 1988); Kalamazoo river, Michigan, USA (Prins & Davis, 1966); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Lakes at Santee, California, USA (Nogrady, 1982); Laurentian Great Lakes (Stemberger, 1979); Exp. pond near Bakersfield, Co Kern, California (Hurlbert *et al.*, 1972)

- Oriental region: River Yamuna, India (Novotna-Dvorakova, 1963; Rai, 1974); Sri Lanka (Fernando, 1969 & 1980a); Tank near Nagpur, C India (Arora, 1962b & 1966); India (Sharma & Michael, 1980; Sharma, 1983); Malacca, SE Asia (De Maeseneer, 1976); Malaysia, Singapore, Sri Lanka, India (Sudzuki, 1989); Village pool & rice paddy at Patan, Nepal (Daems & Dumont, 1974); Sri Lanka, very rare (only in 2 large lakes) (Chengalath, Fernando & Koste, 1973); Singapore. Cosmopolitan (Sudzuki, 1991); E & W Malaysia & Singapore (Fernando & Zankai, 1981); Panjab State, NW India (Sharma, 1976 & 1980); West Bengal, NE India (Sharma, 1979a)

- Australian region: Darling river, SE Australia (Koste & Shiel, 1980); Billabongs r. Murray, SE Aust. (Shiel & Koste, 1983); NSW & S Aust. (Shiel & Koste, 1979); Rivers & billabongs of the Murray-Darling system (Shiel, 1983); Cosmop. in alkal. freshwater. NSW, NT, Qld, SA, Vic. (Koste & Shiel, 1987b); Australasia (Koste, 1979); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Darling river, S Aust. (Shiel, 1985); Rivers of the Murray-Darling system, Aust. (Shiel, 1986); Billabongs in the r. Murray floodplain, NSW (Hillman & Shiel, 1991); Murray river (Serruya & Pollinger, 1984); Murray river at Mannum, S Aust. (Shiel, 1979)

- Neotropical region: Freshwaters, Argentina (Paggi, 1973); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1978a & 1985); R. Saladillo basin, Argentina (José de Paggi & Koste, 1988); Argentina (Modenutti & Claps, 1988); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Lago Açu, Maranhão, Brazil (Reid & Turner, 1988); Brazil, Argentina, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Near Concepcion, Paraguay (Koste, 1986b); Prov. Santa Fé, Argentina (José de Paggi, 1990); Apure river, W Venezuela (Saunders & Lewis, 1988); Cuba & San Salvador (Collado *et al.*, 1984); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); Rio Reconquista, prov. Buenos Aires, Arg. (Kuczynski, 1991b); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Lake Cocibola & pond UCA, Nicaragua (Moreno *et al.*, 1992); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Brachionus budapestinensis Daday, f. *lineatus* Skorikov, 1896

- Palaearctic region: Soviet section of r. Danube (Parchuk, 1985); Serbian part of r. Danube (Zivkovic, 1987)

Brachionus budapestinensis Daday, f. *similis* Leiszling, 1914

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Brachionus calyciflorus Pallas, 1766

- Palaearctic region: Barther Bodden, Baltic Sea, Germany (Vietinghoff *et al.*, 1984; Arndt, Herkloss & Schnese, 1984a & 1984b); Canal de Séclin, Nord, France (Angeli, 1972 & 1975); Lake Myvatn, Iceland (Adalsteinsson, 1974 & 1979); Baisse salée, Camargue, S France (Aguesse, 1960); Lake Trummen, S Sweden (Andersson *et al.*, 1975); Gr. Müggelsee, Berlin (Barthelmes, 1960); L. Bielersee, CH (Baugerter *et al.*, 1980; Berner.-Fankhauser, 1983 & 1986); River Klyas'ma, R.F. (Bogoslowski, 1961); Heiluntian province, China (Bogoslowski, 1962); Impoundment Kninicki, CSR (Kubicek, 1964); R. Rijn, N of Rotterdam, NL (Leentvaar, 1963a); Lake Muy on Texel island, NL (Leentvaar, 1967); L. Quackjeswater, Voorne, NL (Leentvaar, 1963b); Laarder Wasmee, NL (Leentvaar, 1963c); Broads & peat pits, NW Overijssel, NL (Leentvaar, 1965); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Karstic lake Percile, Latium, Italy (Margaritora *et al.*, 1981); In all zoogeographical regions (Pejler, 1977); C & S Sweden (Bērziņš & Pejler, 1987, 1989a & 1989b); Lake Suwa, Japan (Hanazato *et al.*, 1989); R. Thames, UK (Bothel *et al.*, 1976); Romania (Rudescu, 1960); Loosdrecht Lakes, NL (Gulati, 1990); Lake Hazar, Asiatic Turkey (Tokat, 1976); Po river, Italy (Ferrari *et al.*, 1989); Lake Numasawa, Japan (Sudzuki *et al.*, 1983 & 1989); L. Zwemlust, prov. Utrecht, NL (Van Donk, Gulati & Grimm, 1990); Priest Pot, Lake District, UK (Hawitt & George, 1987); District Ostrava, CSR (Dvorakova, 1960b); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Lake Teganuma, C Japan (Takamura *et al.*, 1989); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Korea (Turner, 1986); Japanese inland waters (Yamamoto, 1960a); Bafra Lake, E Turkey (Emir, 1989); Koyama-Ike, coastal pond in Japan (Sudzuki & Fukuta, 1989); Carp ponds in S Poland (Zurek, 1980); Lake Biwa, Japan (Yamamoto, 1967 & 1968); Minorca, Spain (de Manuel, 1990); River Hase, NW Germany (Koste, 1976b); Ponds in Japan (Hanazato & Jasumo, 1990); Lake Kasumigaura, Japan (Hanazato, 1990); Ponds near München, Germany (Buchner & Mulzer, 1961); Lake Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Lake Mälaren, Sweden (Grönberg, 1975); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Danube river, Romania (Popescu-Marinescu *et al.*, 1990); Norfolk broads, UK (Irvine *et al.*, 1990); Eutrophic lake Mikolajskie & mesotrophic lake Taltowisko, Maz. lakeland, Poland (Hillbricht-Ilkowska & Weglenska, 1970); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lac Léman, Fr./CH (Balvay & Laurent, 1990a & 1990b); Treatment ponds of Naroch

Sanitorium, R.F. (Krynckova, 1990); Lac d'Aydat, Massif Central, France (Oulad Ali *et al.*, 1990); C & S Sweden (Pejler & Bērziņš, 1989); Impoundment Helme, near Kelbra, Kyffhäuser, Germany (Heynig, 1968); Inundation area of Danube delta, Rom. (Dorobantu, 1964); Pond in Sevilla, Spain (Guisande & Mazuelos, 1991); Lower Silesia, Poland (Pawlowski, 1960); River Grabia basin, Poland (Pawlowski, 1960, 1970 & 1973); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); R. Loire at St. Laurent-les-Eaux; Lac de Créteil, Paris Suburb; Lac de Beauséjour at St. Rémy-de-Chevreuse, France (Pourriot *et al.*, 1984); L. Balaton, Hungary (Zankai, 1968); Szezecin Bay, Poland (Wiktor, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Ponds near Rambouillet, France (Pourriot *et al.*, 1969); Delta of r. Danube, Rom. (Zinevici & Teodorescu, 1991); Lac de Créteil, Paris suburb, France (Pourriot & Rougier, 1986 & 1991; Garnier & Lescher-Moutoué, 1983 & 1984; Mourelatos *et al.*, 1990); Lake Donk, Overmere, Belgium (Coussement, 1976; Claus & Dall'Asta, 1972; Dumont, 1978b; Roche, 1987 & 1989); Boatracing canal, Gent, Belgium (Van Vossel, 1973; Vanderbeken, 1977; De Maeseneer, 1972 & 1973; De Maeseneer *et al.*, 1978; Coussement, 1982); River Lieve, Gent (De Smet & Evens, 1970); River Meuse Liégeoise, Belgium (Baiverlin, 1984); Gulf of Finland, ? S North Sea, British Channel & Irish Sea (Bērziņš, 1960); Lake Akgöl, Selçuk-Izmir, Turkey (Ustaoglu & Balik, 1987); Lake Kus, Turkey (Ustaoglu & Balik, 1990a); Lake Gebekirse, Izmir, Turkey (Ustaoglu & Balik, 1990b); Lake Marmara, Turkey (Ustaoglu, *s.d.*); Camargue, S France (De Ridder, 1960a & 1961); Handzame Canal, Diksmuide, Belgium (De Ridder, 1960b); Obretin Lake, Danube delta, Rom. (Neagu-Godeanu *et al.*, 1968); In brackish fishponds in Japan (de Beauchamp, 1963); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Artificial crater lake Derwart, near Doornik, Belgium (Bogaert & Dumont, 1989); Volga r. & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Ponds of Kochubey fishfarm (Dagestania ASSR) (Salnikov & Badmina, 1979); Peridunar ponds Santa Olalla & Dulce, Doñana Nat. Park, Spain (López *et al.*, 1991); Near Szarvas, Hungary (Tamas, 1975); Fish-fattening ponds in the Ukraina, R.F. (Krazhan, 1976); Rivers in W Kazakhstan, R.F. (Petrova, 1976); Dniester estuary, R.F. (Polishchuk, 1976); Lake Terenkul', S Ural, R.F. (Drabkova *et al.*, 1979); Treatment ponds in Astrakhan province, R.F. (Chuykov, 1979); All over Europe; Caucasus; Caspian Sea, Asia minor (Bērziņš, 1978); "Kleine vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1989); Moat fort Merksem (Antw., B.) (De Smet *et al.*, 1987); Large, medium-size & small rivers tributary to Kiev reservoir, R.F. (Polishchuk, 1987); Naroch Sanitorium, Belorussia, R.F. (Krynckova, 1989); Grozser Binnensee, Baltic coast, Germany (Lampert & Rothhaupt, 1991); Lake Myvatn, Iceland (De Ridder, 1972); Coal mine res. & r. Swinka, Lublin coal basin, E Poland (Radwan *et al.*, 1991); Spanish reservoirs (de Manuel, 1991); Kanev reservoir, Dnieper, R.F. (Mogil'chenko, 1986); Lower Volga (Chuykov & Merkulov, 1986); Vilyny river, R.F. (Sokolova, 1986); Volgograd reservoir, R.F. (V'yushkova, 1985); Terek delta, Astrakhan peninsula, R.F. (Chuykov & Deneskin, 1985); Soviet section of r. Danube (Parchuk, 1985); Cherepet' power plant, S of Moscow, R.F. (Kuznetsova, 1982); Barabinskaya power plant, near Novosibirsk, R.F. (Volgin *et al.*, 1982); Saratov reservoir, R.F. (Popchenko *et al.*, 1981); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960; Caspers, 1964); Experimental fishponds near Warsaw, Poland (Spodniewska *et al.*, 1966); Several water bodies in Turkey (Emir, 1991); Fishpond near Würzburg, Germany (Halbach, 1984); River Svratka, CSR (Kubicek, 1968); Lake Aydat, Massif Central, Fr. (Lair, 1978); Backwater Labicko, Middle Elbe, CSR (Straskraba, 1965); Ponds of Mirwart, Belgium (Wattiez, 1978); Dor fish & aquacult. research station, Israel (Gasith & Perry, 1985); Impoundment r. Batlava, CSR (Jankovic, 1975); Sava lake, ex-Yugoslavia (Kalafatic, 1978); Rheinischer Braunkohlrevier near Zülz, G. (Küsters *et al.*, 1975); Exper. fish culture station in Golysz, catchment area of the Upper Vistula river, Poland (Lemkowicz, 1984); Exper. fish ponds at Golysz, Poland (Wrobel, 1972); R. Dnieper and impoundment on it, Ukraina, R.F. (Zeeb, 1972); Reservoir at kibbutz Na'am, C Israel (Dor *et al.*, 1987); Sewage-purification plant West, A'dam, NL (Dresscher, 1960); Southwest islands of Japan (Sudzuki *et al.*, 1992); Mouth regions of the Danube branches, Rom. and predeltaic area of Dan. in Black Sea (Popescu-Marinescu, 1974); Delta of r. Danube, Rom. (Rudescu & Banu, 1973); R. Danube (Austria to Romania) (Wawrik, 1968); Yugos. area of the Danube river & its tributary, Tisa river (Zivkovic, 1968); Hudsons Bay & Hoveton Great Broad, E Anglia, UK (Timms & Moss, 1984); R. Warnow, near Rostock, Germany (Keil *et al.*, 1963); Funada-ike pond, Chiba, Japan (Urabe, 1992); R. Danube and its tributaries (Bothar, 1982); Pond in Sevilla, Spain (Guisande & Mazuelos, 1991); Etang de Pommereau (Loir-et-cher), France (Tassigny *et al.*, 1970); Lac Léman, Fr./CH (Balvay, 1989; Balvay *et al.*, 1985; Balvay & Laurent, 1989); Vistula lagoon, S Baltic Sea (Heerkloss *et al.*, 1991); Niederrhein & Fulda, Germany (Bringmann & Kühn, 1962); Lough Erne system, NW Ireland (Gibson *et al.*, 1980); Fishpond in Isobellino fishfarm, Belorussia (Galkovskaya *et al.*, 1987); River Oder, Germany (Walter & Scharf, 1961); Brundall, Norfolk Broads, UK (Leah *et al.*, 1980); Hjarback Fjord, N Jutland, DK (Olrik *et al.*, 1984); Gravel pits along r. Meuse, NL (Wibaut-Isebree Moens, 1964); Lake Biwa-ko, Japan (Yamamoto, 1960b); L. Kinneret, Israel (Serruya & Pollinger, 1984); Bassin artificiel du Luxembourg, Paris; Mare de ferme à Rambouillet, S & O, France (Pourriot & Deluzarches, 1971);

Bassin du Luxembourg, Paris & pools in department Seine & Oise, France (Pourriot, 1973); Ponds in Gif-s-Yvette & St. Rémy, Paris suburb, France (Pourriot & Leborgne, 1970); Waters near r. Bodrog, NE Hungary (Dévai *et al.*, 1972/73); Lake of Hokuriki district, Japan (Kanetsuna, 1973); Experimental ponds at Golysz, Poland (Lemkowicz, 1971; Zurek, 1974); Impoundment Twistatalsperre, Nordhessen, G. (Meinel *et al.*, 1983); Waterworks Jungfernheide, Berlin, Germany (Ritterbusch, 1974); Darsz-Zingst estuary, N Germany (Arndt, 1991); Bulgarian Bank of r. Danube (Naidenow, 1963); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1967); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); R. Loire at St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Pelagic zone of Leczna-Wlodawa lakes, Poland (Radwan, 1978); Lake Jorzec, Mazurian, lakeland, Poland (Radwan *et al.*, 1985); Hamburg area, Germany (Rühmann, 1961 & 1965a); Small pond near Turin, Italy (Robotti, 1975a); München area, Germany (Rauh, 1963); Water sheets in the Hamburg area, Germany (Rühmann, 1964); River Alster in Hamburg, Germany (Rühmann, 1967); Middle course of r. Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); R. Sambre in several localities of N France (Waeyaert, 1972); Ponds, pools and canals near Paris, France (Pourriot, 1965); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Fukushima Prefecture, Japan (Sudzuki, 1982); Periphytic biota in sewages & park waters, J. (Sudzuki, 1981); Serbian part of r. Danube (Zivkovic, 1968 & 1987); Lago Trasimeno, Italy (Taticchi, 1968); Lake Stechlin, Germany (Ronneberger & Schönborn, 1985); All over Spain (Velasco, 1990); Ponds near München, Germany (Buchner & Mulzer, 1961); Pond in Langenbach, Oberbayern, Germany (Rauh, 1963); Lake in Leersumse veld; Bakkerskooi & Wanneperveen, Overijssel, NL (Leentvaar, 1967b); In Periphyton of mosses & *Myriophyllum* in the Danube and some brooks in the Alps (Austria) (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); R. Elbe estuary, Germany (Schulz, 1961; Giere, 1968); Lower Elbe r., Germany (Grimm, 1968); River Danube (Austria to Romania) (Wawrik, 1968); Shores of dammed & flowing stretches of r. Danube at the German-Austrian border (Donner, 1972); Lac de Créteil & Lac St. Rémy, Paris suburb (Pourriot & Snell, 1983); Barther Bodder, Baltic Sea brackish inlet (Heerkloss *et al.*, 1984); Vistula lagoon, Poland (Adamkiewicz & Rozanska, 1990); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Balearic archipelago, Spain (de Manuel *et al.*, 1992); Lakes Zuidelijke Vechtplassen, NL (Leentvaar, 1969); All over the Netherlands (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1972d & 1979); El Ghab area, Syria (De Ridder, 1965); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); All over Belgium (De Ridder, 1986); Clay pits in Stuivekenskerke, Belgium (Espeel, 1979); Boatracing canal in Gent, Belgium (De Maeseneer, 1976); 4 localities in Belgium (De Maeseneer, 1979); Etang des Monts Rosés, Sivry, Belgium (De Ridder, 1980); Slightly brackish waters near Bruges, Belgium (De Ridder & Verheye, 1980); Brabantse Biesbosch, NL (Leentvaar, 1960); Lake Constance, Germany (Walz *et al.*, 1987); R. Danube (Enaceanu & Brezeanu, 1970); Lake of the Black Sea shore (Godeanu, 1970b); Ellesmere district, UK (Galliford, 1960a); Canal Leeds-Liverpool, UK (Galliford, 1960b); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Lakes N of Bucarest, Rom. (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1969b); L. Wolfsee near Scheinfeld (Steigerwald), G. (Halbach & Burkhardt, 1972); Fishpond near Würzburg, Germany (Halbach, 1973); Impoundment Weidatalsperre, E Thür., Germ. (Hoffmann, 1966); Lower course of r. Sambre, Belgium (Dumont & Van Vossel, 1973); Sambre river, Belgium (Dumont *et al.*, 1975); New impoundment in the CSR (Kubicek, 1968); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of r. Odra, Poland (Klimowicz, 1979); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); L. de la Crégut & L. de la Laspialade, Cantal Dépt., France (Omaly, 1970); R. Loire, France (Lair *et al.*, 1978); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1981); Ponds at Mirwart, Belgium (Marlier & Wattiez, 1977); Lowland brook-pond system, Boom, Belgium (Maes, 1985); L. Victoria, Oltenia area, Romania (Marx *et al.*, 1967); Lake Zürichsee, CH (Nipkow, 1961); Lake Erken, Sweden (Nauwerck, 1963); Danube delta, Romania (Popescu-Marinescu & Zinevici, 1967); L. Aydat & L. Pavin, Puy-de-Dôme, France (Persoone *et al.*, 1968); R. Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); Pond in Gif-s-Yvette, France (Pourriot & Rougier, 1976); 2 Ponds in Gif-s-Yvette, France (Pourriot, 1972); Pond in Park C.N.R.S. in Gif-s-Yvette, Fr. (Rougier & Pourriot, 1977); Black Sea (Rudescu, 1961); Reed borders of the Danube delta, Rom. (Rudescu, 1968); Fishpond near Wintershagen, Germany (Halbach & Halbach-Keup, 1974); Bamberg-Hochstädt area, Germany (Halbach, 1973); Lagoon Sacca del Canarin, Po r. delta, Italy (Ferrari *et al.*, 1985); Nat. Res. Jursky Sur, CSR (Hudec, 1978); L. Biwa, Japan (Hillbricht-Ilkowska, 1983a & b); L. Nehmitzsee, Brandenburg, Germany (Kasprzak & Ronneberger, 1982); L. Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Lakes in Estonia (Haberman, 1978; Mäemets, 1983); Sewage purification plant Horrem, near Köln, Germany (Bick & Scholtysek, 1960); Finland (Eriksen, 1969); Banyoles lake, NE Spain (Miracle, 1974); Moerdijk-Hollands diep, NL (Leentvaar, 1980); R. Loire, France (Lair, 1980); Lagoon of Cullera, 35 km S of Valencia; La albufera de Valencia, Spain (Miracle *et al.*, 1988); Lake Neusiedlersee, Austria (Herzig, 1983); Brackish waters coast Span. Meditt. Sea (Miracle *et al.*, 1987); Mine waters in E Poland

(Radwan & Paleolog, 1983); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); L. Cullera near Valencia, Spain (Miracle & Vicente, 1983); Slovenia, ex-Yugoslavia (Markic, 1983); All continents (Dumont, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Impoundment "Eisernes Tor" Donau, Rom. (Brezeanu & Peten 1973); Very common in the Danube (Bothar, 1982); Albufera de Valencia, Spain (Oltra & Miracle, 1984); "Altes Land" near Hamburg, Germany (Heckman, 1984 & 1986); R. Guadalquivir, S Spain (Guisande & Toja, 1988); Near Hamburg, Germany (Berghahn, 1979); Rice fields in N Italy (Ferrari *et al.*, 1984); River Po, Italy (Ferrari *et al.*, 1984); Middle course of r. Po, Italy (Ferrari *et al.*, 1986); Lake Balaton, Hungary (Zankai & Ponyi, 1971a); Delta of r. Danube, Rom (Godeanu & Zinevici, 1983; Zinevici & Teodorescu, 1990); L. Mikolajkie, Mazurian lakeland, Poland (Klimowicz, 1972)

- Nearctic region: Lakes & ponds near Hanover, New Hampshire, USA (Kirk & Gilbert, 1990); Lake Erie, Canada (Davis, 1969); Canada (Chengalath, 1977); Ontario, Canada (Chengalath *et al.*, 1970; Chengalath & Fernando, 1973); River Neuse, N Carolina, USA (Fulton & Pearl, 1987); Burlington, Vermont, USA (Gilbert, 1974 & 1975a; Gilbert & Starkweather, 1977); Lake Mitchel, USA (Williamson, 1984); Lake Michigan & Milwaukee Harbor, USA (Stemberger, 1974); Standley lake, Colorado, USA (Pennak, 1966); Illinois & Kentucky, USA (Bērziņš, 1984); Illinois river, USA (Brown *et al.*, 1989); L. Washington, Washington, Seattle, USA (Gilbert, 1966 & 1967); Near New Haven, Connecticut, USA (Gilbert, 1963a & 1963b; Snell, 1989); Millstone pond, near to Rocky Hill, N Jersey (Gilbert & Waage, 1967); Colorado, USA (Turner, 1988); Pond near Burlington, Vermont, USA (Starkweather & Gilbert, 1977); Kingston, Ontario, Canada (Nogrady, 1989); Altiplanicio Central, Mexico (Vilaclara & Sladecsek, 1989); Potomac river, Virginia, USA (Fulton III, 1988; Stemberger, 1990); Kalamazoo river, Michigan, USA (Prins & Davis, 1966); Old Woman Creek & Old Woman Creek estuary, Huron, Ohio, USA (Havens, 1991); Northern Michigan inland lakes (Stemberger, 1990); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Lakes at Santee, California, USA (Nogrady, 1982); L. Whitney, Cumberland Island (Stoneburger & Schmock, 1980); Laurentian Great Lakes (Stemberger, 1979); Lakes in Florida (Davis *et al.*, 1987); Experimental ponds in C Florida (Fry & Osborne, 1980); Lake Ontario, Canada (Nauwerck, 1978); Near Burlington, Vermont, USA (Gilbert, 1985a); Severson lake, Minnesota, USA (Comita, 1972); L. Mendota, Wisconsin, USA (Pedros-Alio & Brock, 1983); Lake Beauclair, Florida (Elmore *et al.*, 1984); Bayou de Siard, Monroe, Louisiana (Gallagher, 1965); Milwaukee harbor, Wisconsin, USA (Boraas & Bennett, 1988); Pond near Burlington, Vermont (Gilbert, 1985; Gilbert & Litton Jr., 1975; Stemberger & Gilbert, 1985a); San Francisco & Lakes at Santee, California (Nogrady, 1983); Milwaukee Harbor, Wisconsin, USA (Bennett & Boraas, 1989)

- Oriental region: E & W Malaysia & Singapore (Fernando & Zankai, 1981); SE Asia (Fernando, 1980b); Kailasagar impoundment, India (Sharma & Saksena, 1984); Fishponds in Kalyani, W Bengal, India (Jana *et al.*, 1980); Panjab State, NW India (Sharma, 1976 & 1980); West Bengal, NE India (Sharma, 1979a); Orissa, E India (Sharma, 1978c); 2 sewage channels at Gwalior, India (Saksena & Kulkarni, 1986); Bangkok & pool in Xieng Mai, Thailand (De Ridder, 1971); Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); Montane lakes of Bali, Indonesia (Green *et al.*, 1978); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1985); Jammu (J & K), India (Jyoti & Sehgal, 1980); Lake Surinsar, Jammu, India (Jyoti & Sehgal, 1979); Kerala, S India (Nayar & Nair, 1969); South India (Naidu, 1967); Malacca peninsula (Dunn, 1970); Saline crater lake Batur, Bali (Green, 1986); Dar Lake, Kashmir Himalayan L., India (Vass & Zutshi, 1983); L. Gorewada & L. Khan Payao, India (Serruya & Pollinger, 1984); Small pond in Rajasthan (Pilani); lakes Amer (Jaipur); Nakki, Ajit Sagar, Gajna & swamp Sagar, Rajasthan, India (Nayar, 1964); 2 ponds in Pilani, Rajasthan, India (Nayar, 1970); 3 tanks near Nagpur, C India (Arora, 1966b & 1966c); Oxidation pond in Nagpur, India (Arora, 1966d); Near Bhopal, C India (Arora, 1967); Rajasthan, India (Nayar, 1968); Luzon (Philippines) & Malaysia (Ueno, 1966); Malacca, M. peninsula, SE Asia (De Maeseneer, 1976); Parakrama Samudra reservoir, Sri Lanka (Duncan, 1983b; Duncan & Gulati, 1983b; Fernando, 1984); River Yamuna, India (Novotna-Dvorakova, 1963; Rai, 1974); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969 & 1980); Buckingham Canal, Madras, India (Ravichandran *et al.*, 1988); Shallow ponds in Delhi, India (George, 1961); Singapore (Karunakaran & Johnson, 1978); In many localities in India (Dhanapathi, 1977); Widely distributed in India (Sharma, 1983); Java (Green & Oey, 1974); India (Sharma, 1983 & 1987; Sharma & Michael, 1980); Thailand & Indonesia (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Rice fields of North Kriau, Perak, Malaysia (Ali, 1990); Taiwan, Singapore, Indonesia, India (Sudzuki, 1989); Koyama-Ike, a coastal pond in Japan (Sudzuki & Fukuta, 1989); Village pool & rice paddy at Patan, Nepal (Daems & Dumont, 1974); Sri Lanka: very common in large & small lakes, also occurs in rivers. Rare in ponds (Chengalath, Fernando & Koste, 1973); Singapore & Taiwan. In warm waters (Sudzuki, 1991); Victoria reservoir, Sri Lanka (Piyasiri & Jayakody, 1991); Roshanara Tank, Naini L., Indranagar T. & Stocking Tank, Delhi, India (George, 1966); 2 shallow ponds in Delhi, India (George, 1961b); Pond in Pilani, India (Nayar, 1965a); Fishponds in Thailand (Boonsom,

1984a); Thailand (Boonsom, 1984b); Andhra Pradesh, India (Dhanapathi, 1974b); Impoundment Kinda, C
Burma (Koste & Tobias, 1990)

- Australian region: Lake Catani, Mt. Buffalo, Aust. (Bērziņš, 1982); Nacrandera, NSW, Aust. (Culver, 1988); Billabongs r. Murray, SE Aust. (Shiel & Koste, 1983); SW Aust. (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); Darling river, SE Aust. (Koste & Shiel, 1980); Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); NSW, SA, Qld & Vic, Aust. (Shiel & Koste, 1979); Rivers & lakes all over Australia (Shiel, 1983); Cosmopolitan. Eurytherm in alkaline and also polluted shallow waters. Pancontinental in Australia, also including Tasmania (Koste & Shiel, 1987b); E Aust. (Koste & Shiel, 1980b); Tasmania (Shiel, Koste & Tan, 1989); R. Murray at Mannum, S Aust. (Koste, 1980); Barwon River, Darling r. System, S Aust. (Shiel & Walker, *s.d.*); River of the Murray-Darling system, Aust. (Shiel, 1986); Billabongs in the r. Murray floodplain, NSW (Hillman & Shiel, 1991); Lake Orbell, SW New Zealand (Stout, 1975); Christchurch & North Otago, New Zealand (Russell, 1960)

- Neotropical region: Cosmopolitan. Amazonia, Brazil (Koste, 1972f); Amazonia, Brazil (Thomasson, 1971); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Chile (Löffler, 1962); Lago do Rei, Amazonia, Brazil (Schaden, 1977c); L. Valencia, L. Castanho, L. Redono, L. Titicaca (Serruya & Polingher, 1984); Lake Masaya, Nicaragua (Moreno *et al.*, 1992); Island of Martinique (Pourriot, 1975); Reconquista river, Argentina (Kuczynski, 1991); Reservoir Rafael, C Chile (Soto *et al.*, 1984); Ecuador: Costa (Koste & Böttger, 1989); River Parana, Brazil (Bonetto, 1986); Amazonia, Brazil (Hauer, 1965b); Argentina (Modenutti & Claps, 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco river & its delta, Ven. (Vasquez & Rey, 1989); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1978a & 1985); Eutrophic water Santa Fé, Argentina (José de Paggi, 1976a); River Santa Fé, Argentina (José de Paggi, 1976b); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); S Brazilia (Arcifa, 1984); Brazil, Chile, Argentina, Venezuela, Panama, Honduras (Koste & José de Paggi, 1982); Arroyo Rodriguez, prov. Buenos Aires, Arg. (Modenutti, 1987); Provinces in NW Argentina (José de Paggi, 1989); Prov. Chubut, Rio Negro, Neuquen, San Luis, San Juan, Salta, Santiago del Estero, Corrientes, Santa Fé, Buenos Aires, Argentina (José de Paggi, 1990); Chilean lakes (Schmid-Araya, 1991); Caribbean part of the Neotropical region (De Ridder, 1977); L. Bubali, Aruba, Dutch Leeward Islands (Higler & van Halewijn, 1991); Lake Valencia, Venezuela (De Infante & Riche, 1984); Argentine Patagonia (Kuczynski, 1987b); Apure river, W Venezuela (Saunders & Lewis, 1988); Bonaire, Caribbean Islands, Costa Rica, Cuba, El Salvador, Haiti & Nicaragua (Collado *et al.*, 1984); Lago de Valencia, Venezuela (De Infante, 1980 & 1982; Sanders, 1980); Lake Moyna, Nicaragua (De Ridder, 1966b); L. Aguilera, Orinoco floodplain lake, Ven. (Hamilton *et al.*, 1990); Prov. Buenos Aires, Argentina; Brazil (Olivier, 1965)

- Antarctic region: Antarctica & Subantarctica (José de Paggi & Koste, 1984); Antarctic meltwater pools (Thomas, 1965); Clark peninsula (Thomas, 1972)

***Brachionus calyciflorus* Pallas, f. *amphicerus* Ehrenberg, 1838**

- Palaearctic region: Afghanistan (Bērziņš, 1961); L. Palaeostomi, Georgia, R.F. (Haberman, 1982; Hab. & Laugaste, 1982); Moerdijk-Hollands Diep, NL (Leentvaar, 1980); L. Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983; Zinevici & Teodorescu, 1990 & 1991; Prunescu-Arion, 1989); Lower Danube in Romania (Enaceanu, 1964); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Boatracing canal, Gent, Belgium (De Maeseneer, 1972); Luka nad Olzon, near Ostrava, Silesia, CSR (Sladeczek, 1969); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Dniester estuary, R.F. (Polishchuk, 1976); Spanish reservoirs (de Manuel, 1991); Soviet section of the Danube (Parchuk, 1985); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); 2 localities in Belgium (De Maeseneer, 1979); R. Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary, Germany (Schulz, 1961); Lakes of the Black Sea shore (Godeanu, 1970b); Canal Leeds-Liverpool, UK (Galliford, 1960b); Lakes N of Bucarest, Romania (Godeanu, 1969); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); R. Vistula near Warsaw, Poland (Klimowicz, 1981); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Black Sea (Rudescu, 1961); Bulgarian bank of r. Danube (Naidenow, 1963); Pelagic zone of Leczna-Wlodawa lakes, Poland (Radwan, 1975); Hamburg area, Germany (Rühmann, 1981); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Serbian section of r. Danube (Zivkovic, 1987); Spain: Barcelona, Madrid, Valencia, Tarragona (Velasco, 1990); Gravel pits along r. Meuse, NL (Wibaut-Isebree Moens, 1964); Rybrik dam reservoir, Poland (Krzanowski, 1979); Lakes of Hokuriki district, Japan (Kanetsuna, 1973); Southwest islands of Japan (Sudzuki, 1992; Sudzuki *et al.*, 1992); Acid ponds in Lower Austria (Wawrik, 1972); Japanese inland waters (Yamamoto, 1960a); Canal Isebek, Hamburg, G. (Caspers & Schulz, 1960); L. Batlava impoundment, CSR (Jankovic, 1975); Sava Lake, ex-Yugoslavia (Kalafatic, 1978); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of r. Danube at the German-Austrian border (Donner, 1972); Lower Elbe, Germany (Grimm, 1968); Mouth areas of Danube branches & predeltaic area of r. Danube (Popescu-Marinescu, 1974); River

Danube (Austria to Romania) (Wawrik, 1968)

- Nearctic region: Illinois & Kentucky, USA (Bērziņš, 1984); Lakes at Santee, California, USA (Nogrady, 1982)

- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983; Sudzuki, 1989); Andhra Pradesh, S India (Dhanapathi, 1974); Bhairideverkop pond, Karnataka State, India (Patil & Gonder, 1985); Singapore (Karunakaran & Johnson, 1978); Malaysia, Singapore, India, Sri Lanka, Philippines (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988); Singapore & Taiwan. Warm water species (Sudzuki, 1991); E & W Malaysia & Singapore (Fernando & Zankai, 1981); Panjab State, NW India (Sharma, 1980); West Bengal, NE India (Sharma, 1979a); Nimeta waterworks near Baroda, India (Wulfert, 1966)

- Australian region: Qld & S Aust. (Shiel & Koste, 1979); Australia (Shiel, 1981); Pancontinental in rivers & lakes, Aust. (Shiel, 1983); Murray river at Mannum, S Aust. (Shiel, 1979)

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Lago Açu, Maranhão, Brazil (Reid & Turner, 1988); Amazonia, Brazil (Thomasson, 1971; Koste, 1972f); Venezuela, Brazil, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Reconquista river, Argentina (Kuczynski, 1991); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977c & b); Rio Tocantino, Amazonia, Brazil (Schaden, 1977c)

***Brachionus calyciflorus* Pallas, f. *anuraeiformis* Brehm, 1909**

- Palaearctic region: R. Rijn, Waal, Maas & Yssel; L. Wijlmermeer near Nijmegen, NL (Dresscher, 1976); R. Guadalquivir, S Spain (Guisande & Toja, 1988); Lakes in Estonia (Haberman, 1978); L. Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Asiatic Turkey (Dumont & De Ridder, 1987); Delta of r. Danube, Rom. (Prunescu-Arion, 1989; Zinevici & Teodorescu, 1990 & 1991); Romania (Rudescu, 1960); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Lac Léman, Fr./CH (Balvay & Laurent, 1990a; Balvay *et al.*, 1990); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); Japanese inland waters (Yamamoto, 1960a); Sava Lake, ex-Yugoslavia (Kalafatic, 1978); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); R. Danube (Enaceanu & Brezeanu, 1970); Canal Leeds-Liverpool, UK (Galliford, 1960b); Lakes, N of Bucarest, Rom. (Godeanu, 1969b); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of r. Odra, Poland (Klimowicz, 1979); Sewage ponds near Czestochowa, Poland (Klimowicz, 1978); Black Sea (Rudescu, 1961); Ponds of Oltina, SE Dobrogea, Rom. (Popescu-Gorj & Costea, 1961); Hamburg area, Germany (Rühmann, 1961); R. Alster in Hamburg, Germany (Rühmann, 1967); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Aegean lakes, Macedonia, ex-Yugosl. & Greece (Serafimova-Hadzisce, 1974); Serbian section of r. Danube (Zivkovic, 1987); Lake Stechlinsee, Germany (Ronneberger & Schönborn, 1985); Spain: Madrid, Sevilla, Valencia & Tarragona (Velasco, 1990)

- Nearctic region: Lakes at Santee, California, USA (Nogrady, 1982); L. Hodges, San Diego Co, California, USA (Nogrady, 1983)

- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983); Kalimantan (Borneo), Indonesia (Koste, 1988); E & W Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990); Panjab State, NW India (Sharma, 1980); West Bengal, NE India (Sharma, 1979a)

- Australian region: S Aust. & Vic. (Shiel & Koste, 1979); Australia (Shiel, 1981); Rivers & lakes in E Aust. (Shiel, 1983); E Aust. (Koste & Tobias, 1980b); Murray river at Mannum, S Aust. (Shiel, 1979)

- Neotropical region: Chile, Brazil, Panama, Venezuela (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Lago de Valencia, Venezuela (De Infante, 1980); Reconquista river, Argentina (Kuczynski, 1991); Araucarian lakes, W of the Andes, Chile (Thomasson, 1963b); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992)

***Brachionus calyciflorus* Pallas, f. *gigantea* Koste & Shiel, 1980**

- Neotropical region: Australian endemic. Menindee lakes, NSW (Shiel, 1983); Darling river, S Aust. (Shiel, 1985)

***Brachionus calyciflorus* Pallas, f. *taketomiensis* Sudzuki, 1992**

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1992; Sudzuki *et al.*, 1992)

***Brachionus caudatus* Barrois & Daday, 1884**

- Palaearctic region: Lake Numasawa, Japan (Sudzuki *et al.*, 1983); All continents (Dumont, 1983); Lake Teganuma, C Japan (Takamura *et al.*, 1989); All zoogeographical regions (Pejler, 1977); Korea (Turner, 1986); Southwest islands of Japan (Sudzuki *et al.*, 1992); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Fukushima Prefecture, Japan (Sudzuki, 1982)

- Nearctic region: Colorado, USA (Turner, 1988); Illinois river, USA (Brown *et al.*, 1989); Action Lake, SW Ohio, USA (Chimney *et al.*, 1981); L. Michigan & Milwaukee Harbor (Stemberger, 1974); Illinois, USA (Bērziņš, 1984); L. Brooker, Florida, USA (Scheda & Cowell, 1988); Kalamazoo river, Michigan, USA (Prins & Davis, 1966); Altiplanicio Central, Mexico (Vilaclara & Sladeczek, 1989); Old Woman Creek & Old Woman Creek estuary, Huron, Ohio, USA (Havens, 1991); Pyramid lake, Nevada, USA (Galat *et*

al., 1981); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Laurentian Great Lakes (Stemberger, 1979); Lakes in Florida (Davies *et al.*, 1987); Experimental ponds, C Florida (Fry & Osborne, 1980); L. Sangchris, Illinois, USA (Harmsworth, 1975); L. Beauclair, Florida (Elmore *et al.*, 1984); Near Monroe, Louisiana, USA (Gallagher, 1966); San Francisco, USA (Nogrady, 1983)

- Oriental region: Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); Andhra Pradesh, India (Dhanaphati, 1984b); Reservoir Parakrama Samudra, Sri Lanka (Duncan, 1983a, 1983b & 1984; Duncan & Gulati, 1983a & 1983b); E & W Malaysia & Singapore (Fernando & Zankai, 1981); SE Asia (Fernando, 1980b); River Yamuna, India (Novotna-Dvorakova, 1963; Rai, 1974); Orissa, E India (Sharma, 1978c); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985); Bangkok & pool in Xieng Mai, Thailand (De Ridder, 1971); L. Ranu Lamongau, Indonesia (Green *et al.*, 1976); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); Montane lakes of Bali, Indonesia (Green *et al.*, 1978); Sri Lanka (Fernando, 1969); Malacca peninsula (Dunn, 1970); Saline crater lake Batur, Bali (Green, 1986); Great Lake (Serruya & Pollinger, 1984); Panjab State, NW India (Sharma, 1976); Reservoir Ajwa, near Baroda, India & Nimeta waterworks, *ibid.* (Wulfert, 1966); Freshwater pond at Bakreswar, W Bengal, India (Jana, 1973); 2 ponds at Pilani, Rajasthan, India (Nayar, 1970); Yumma tank, near Nagpur, C India (Arora, 1962a); Tank near Nagpur, Madhya Pradesh, C India (Arora, 1966c); Java (Green & Oey, 1974); Girikbe Tank, Sri Lanka (Bērziņš, 1982a); Widely distributed in India (Sharma, 1983); Lake Parakrama, Sri Lanka (Fernando, 1984); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Fernando, 1980a); Singapore (Karunakaran & Johnson, 1978); Rice fields of North Kriau, Parak, Malaysia (Ali, 1991); Sri Lanka: fairly common in large and small lakes (Chengalath, Fernando & Koste, 1973); Victoria reservoir, Sri Lanka (Piyasiri & Jayakody, 1991); Naini Lake, Indranagar Tank & Nursery Tank, Delhi, India (George, 1966); Fishponds at Barrackpore, W Bengal, India (Michael, 1968)

- Australian region: Qld & Vic, Aust. (Shiel & Koste, 1979); Rivers & lakes in E Aust. (Shiel, 1983); In subtropical and tropical fresh waters. In Aust.: r. Murray billabongs. (Koste & Shiel, 1987b); Sidney reservoirs, NSW, Aust. (Thomasson, 1973); Christchurch, N Zealand & Campbell Island (Russell, 1960)

- Neotropical region: Lake Valencia, Venezuela (De Infante, 1980 & 1982); Lake Cocibolca, L. Xolotlan, L. Masaya & Pond UCA, Nicaragua (Moreno *et al.*, 1992); Fox's Pool, Rio Snia Missu, Mato Grosso, C Brazil (Green, 1972); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); River Parana, Argentina (José de Paggi, 1985); Ecuador: Oriente (Koste & Böttger, 1989); Patagonian tableland, S Argentina (Paggi, 1981); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Paraguay, Argentina, Brazil, Venezuela, Panama (Koste & José de Paggi, 1982); Rio Uatumã, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Near Panguana, Peru (Koste, 1988b); Rapel reservoir, C Chile (Soto *et al.*, 1984); Prov. Santa Cruz, San Juan, Corriente, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Lake Xolotlan, Nicaragua (Cisneros & Mangas, 1991); L. Rio Claro, floodplain lake of the Lower Orinoco, Venezuela (Vasquez & Medina, 1991); Apure river, W Venezuela (Saunders & Lewis, 1988); Caribbean Islands, Costa Rica, Nicaragua (Collado *et al.*, 1984); Floodplain lake on the Lower Orinoco, Venezuela (Vasquez *et al.*, 1991); Reconquista River, Argentina (Kuczynski, 1991); L. Rio Claro, Orinoco floodplain lake, Ven. (Vasquez & Rey, 1992); Lake Managua, Nicaragua (De Ridder, 1966b); Mato Grosso, Brazil (Turner & Da Silva, 1992)

***Brachionus caudatus* Barrois & Daday, f. *aculeatus* Hauer, 1937**

- Oriental region: Jumma tank, near Nagpur, C India (Arora, 1962b); Near Nagpur, C India (Arora, 1966c); India (Sharma & Michael, 1980; Sharma, 1983); Rajasthan, India (Nayar, 1968); Singapore (Karunakaran & Johnson, 1978); Sri Lanka & India (Sudzuki, 1989); 1 locality in Sri Lanka: Giants Tank near Mannar (Chengalath, Fernando & Koste, 1973); Indranagar Tank, Delhi, India (George, 1966); Panjab State, NW India (Sharma, 1976; & 1980); W Bengal, NE India (Sharma, 1976, 1979a & 1980); Nimeta water works, near Baroda, India (Wulfert, 1966)

- Australian region: Kapiti Island, New Zealand (Russell, 1960)

***Brachionus caudatus* Barrois & Daday, f. *apsteini* Fadeew, 1925**

- Palaearctic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)

- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983); Taiwan, Thailand, Malaysia, SE Asia, Singapore, Indonesia, Sri Lanka, India & Philippines (Sudzuki, 1989); Malacca, peninsula Malacca, SE Asia (De Maeseneer, 1976); Singapore & Taiwan. Warm water species (Sudzuki, 1991); Naini Lake & Indranagar Tank, Delhi, India (George, 1966)

***Brachionus caudatus* Barrois & Daday, f. *austrogenitus* Ahlstrom, 1940**

- Australian region: Lower river Murray, S Aust. (Shiel, 1983)

- Neotropical region: Prov. Neuquen, San Juan, Tucuman, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1978a & 1985); Eutrophic water, Santa Fé, Argentina (José

de Paggi, 1976a); River Santa Fé, Argentina (José de Paggi, 1976b); River Saladillo basin, Argentina (José de Paggi & Koste 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Brazil, Argentina, Venezuela, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Brazil (Koste, Robertson & Hardy, 1984); Near Concepcion, Paraguay (Koste, 1986b); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Arroyo Rodriguez, Prov. Buenos Aires, Arg. (Modenutti, 1987); Provinces in NW Argentina (José de Paggi, 1989); Lago Açú, Maranhão, Brazil (Reid & Turner, 1988); Amazonia, Brazil; Venezuela, Indonesia (Koste, 1972f); Chilean lakes (Schmid-Araya, 1991); Argentine Patagonia (Kuczynski, 1987b); Reconquista river, Argentina (Kuczynski, 1991); Laguna Vitel, near Buenos Aires, Arg.; Brazil (Olivier, 1965); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Brachionus caudatus Barrois & Daday, f. *insuetus* Ahlstrom, 1940

- Neotropical region: Lower Orinoco and its delta, Venezuela (Vasquez & Rey, 1989); Lago Açú, Maranhão, Brazil (Reid & Turner, 1988); Argentina, Brazil, Venezuela (Koste & José de Paggi, 1982); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1978 & 1985); Eutrophic water Santa Fé, Argentina (José de Paggi, 1976a); River Santa Fé, Argentina (José de Paggi, 1976b); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Argentina (Modenutti & Claps, 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971; Koste, 1972f); S America (Dumont, 1983); Prov. Santa Fé, Argentina (José de Paggi, 1990); Prov. Buenos Aires, Argentina (Olivier, 1965); Mato Grosso, Brazil (Turner & Da Silva, 1992); Rio Tocantins & Lago Moratu, Amazonia, Br. (Schaden, 1977c)

Brachionus caudatus Barrois & Daday, f. *majusculus* Ahlstrom, 1940

- Oriental region: Rajasthan, India (Nayar, 1968); India (Sharma, 1983)
 - Neotropical region: Argentina, Venezuela (Koste & José de Paggi, 1982); Lago Camaleão, Amaz., Brazil (Koste, Robertson & Hardy, 1984); Eutrophic water Santa Fé, Argentina (José de Paggi, 1976a); Arroyo Rodriguez, prov. Buenos Aires, Arg. (Modenutti, 1987); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Prov. Chubut, Salta, Santa Fé, San Luis & Buenos Aires, Argentina (José de Paggi, 1990); Chilean lakes (Schmid-Araya, 1991); Prov. Buenos Aires & San Luis, Arg. (Olivier, 1965)

Brachionus caudatus Barrois & Daday, f. *personatus* Ahlstrom, 1940

- Palaearctic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)
 - Nearctic region: Near Monroe, Louisiana, USA (Gallagher, 1966)
 - Oriental region: India (Sharma & Michael, 1980; Sharma, 1983); Roshanara Tank, Naini Lake, Indranagar Tank & Stocking Tank, Delhi, India (George, 1966); 2 shallow ponds in Delhi, India (George, 1961b); Panjab State, NW India (Sharma, 1980); West Bengal, NE India (Sharma, 1979a); Kerala, S India (Nayar & Nair, 1969)
 - Australian region: Billabongs Magela Creek, NT, Aust. (Shiel, 1983); Magela Creek area, NT, Aust. (Koste, 1981); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985)
 - Neotropical region: Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); Mato Grosso, Brazil (Turner & Da Silva, 1992); Flooded savanna at Montecal, Venez. (Michalangelli *et al.*, 1979/80); Brazil, Mexico, Argentina, India (Koste, 1972f); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983); Prov. Buenos Aires, Arg.; Brazil; Mexico (Olivier, 1965); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1985); Eutrophic water Santa Fé, Argentina (José de Paggi, 1976a); River Santa Fé, Argentina (José de Paggi, 1976b); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Lago Açú, Maranhão, Brazil (Reid & Turner, 1988); Brazil, Argentina, Venezuela (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Prov. Santa Fé, Argentina (José de Paggi, 1990); S America, probably Asia (Dumont, 1983)

Brachionus caudatus Barrois & Daday, f. *provectus* Ahlstrom, 1940

- Neotropical region: River Reconquista, Argentina (Kuczynski, 1991)

Brachionus caudatus Barrois & Daday, f. *singaporensis* Sudzuki, 1989

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1989)
 - Oriental region: Singapore (Sudzuki, 1989); Singapore & Taiwan (Sudzuki, 1991)

Brachionus caudatus Barrois & Daday, f. *vulgatus* Ahlstrom, 1940

- Palaearctic region: Asia minor (Olivier, 1965)
 - Nearctic region: Illinois, USA (Bērziņš, 1984); Lakes at Santee, California (Nogrady, 1982); USA (Olivier, 1965)
 - Oriental region: Thailand (Sudzuki, 1989); India (Sharma & Michael, 1980; Sharma, 1983); Parakrama Samudra, Sri Lanka (Duncan & Gulati, 1981); E & W Malaysia & Singapore (Fernando & Zankai, 1981); West Bengal, NE India (Sharma, 1979a)
 - Neotropical region: Lower Orinoco and its delta, Venezuela (Vasquez & Rey, 1989); Argentina & Antilles

(Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Prov. Buenos Aires, Arg. (Olivier, 1965; José de Paggi, 1990); Antilles françaises (Pourriot, 1975); Lago Jurucui, Amazonia, Brazil (Schaden, 1977c)

Brachionus charini Kutikova, Kosova & Khodorewski, 1976

- Palaeartic region: Astrachan, R.F. On gill leaflets of Phyllopoeds (Kutikova, Kosova & Khodorewski, 1976); E Eur. lowland (Bērziņš, 1978)

Brachionus cluniorbicularis isigakiensis Sudzuki, 1992

- Palaeartic region: Southwest islands of Japan (Sudzuki, 1992)

Brachionus dichotomus Shephard, 1911

- Australian region: Australia (Dumont, 1983); Darling river, SE Australia (Koste & Shiel, 1980); Billabongs r. Murray, SE Aust. (Shiel & Koste, 1983); Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); Vic & Qld, Aust. (Shiel & Koste, 1979); Australia (Shiel, 1981); Billabongs in E Aust. & NT. Aust. endemic (Shiel, 1983); Known only from Aust. billabongs & lentic waters of Vic, Qld & NT. (Koste & Shiel, 1987b); E Australia (Koste & Shiel, 1980b); Australasia (Koste, 1979); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Billabongs of the Murray-Darling system, Aust. (Shiel, 1986); Billabongs in the r. Murray floodplain, NSW (Hillman & Shiel, 1991)

Brachionus dichotomus Shephard, f. *reductus* Koste & Shiel, 1980

- Oriental region: Nam Ngum reservoir, lower Mekong delta, Laos (Koste & Shiel, 1987b)

- Australian region: Billabongs r. Murray, SE Aust. (Shiel & Koste, 1983); Aust. (Shiel, 1981); Billabongs E Aust. & NT. Aust. endemic (Shiel, 1983); Aust. (Qld & Vic) and Laos (Koste & Shiel, 1987c); E Aust. (Koste & Shiel, 1980b); Vic, Aust. (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984)

Brachionus dimidiatus Bryce, 1931

- Palaeartic region: Lake Stechlinsee, Germany (Ronneberger & Schönborn, 1985); Lake Biwa-ko, Japan (Yamamoto, 1960b); Lake Nehmitzsee, Brandenburg, Germany (Kasprzak & Ronneberger, 1982); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Romania (Rudescu, 1960); All zoogeographical regions (Pejler, 1977); All continents (Dumont, 1983); Pontic province (Bērziņš, 1978); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki, 1992; Sudzuki *et al.*, 1992); River Oder, Germany (Walter & Scharf, 1961); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lake Biwa, Japan (Yamamoto, 1967)

- Oriental region: Rajasthan, India (Nayar, 1968); India (Sharma & Michael, 1980; Sharma, 1983; Sudzuki, 1989); Delhi, India (Sharma, 1988); River Yamuna, India (Rai, 1974)

- Australian region: Vic. Aust. (Koste & Shiel, 1980c); Billabongs in Wodonga, Vic, Aust. (Shiel, 1983)

- Neotropical region: Argentina (Koste & José de Paggi, 1982); Prov. Buenos Aires, Argentina (José de Paggi, 1990)

Brachionus dimidiatus isigakiensis Sudzuki, 1992

- Palaeartic region: SW islands of Japan (Sudzuki, 1992)

Brachionus dimidiatus Bryce, f. *inermis* Schmarda, 1954

- Palaeartic region: Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983)

- Nearctic region: Near Monroe, Louisisana, USA (Gallagher, 1966); Hoya la Alberca & Hoya de Parangueo, Mexico (Green, 1986)

- Neotropical region: Argentina (Koste & José de Paggi, 1982); Prov. San Luis, Cordoba & Buenos Aires, Arg. (José de Paggi, 1990)

Brachionus dimidiatus Bryce, f. *quartarius* de Beauchamp, 1932

- Palaeartic region: Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Pontic province (Bērziņš, 1978)

Brachionus diversicornis (Daday, 1883)

- Palaeartic region: Groszer Müggelsee, Berlin, Germany (Barthelmes, 1960); Heiluntsian province, China (Bogoslawski, 1962); Lakes Dianchi & Erhai, Yuman prov., China (Weimin, 1988); Lake Balaton, Hungary (Zankai & Ponyi, 1971a); Lakes in Estonia (Haberman, 1978); River Loire, France (Lair, 1980); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989; Zinevici & Teodorescu, 1990); Europe (also Australia, Asia, Africa) (Dumont, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); District Ostrava, CSR (Dvorakova, 1960b); Lake Biwa, Japan (Hillbricht-Ilkowska, 1983a & 1983b); Lake Mikolajkie, Mazurian lakeland, Poland (Klimowicz, 1972); Romania (Rudescu, 1960); Palaeartic, Ethiopian & Indian regions (Pejler, 1977); Carp ponds in S Poland (Zurek, 1980); Po river, Italy (Ferrari *et al.*, 1989); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lake Donk, Overmere, Belgium (Coussement, 1976; Dumont, 1978b; Roche, 1987 & 1989); Volga r. & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Near Szarvas, Hungary (Tamas, 1975); Fish-fattening ponds in the

Ukraina, R.F. (Krazhan, 1976); Vilnyus, Lithuania (Rachyunas, 1971); All over Europe; Caucasus, Caspian Sea, Asia Minor (Bērziņš, 1978); Kiev reservoir, R.F. (Polishchuk, 1987); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); Latorica, E Slovakian lowland, CSR (Terek, 1990a); Canals in Hran area, CSR (Terek, 1990c); Mt Fuji, Japan (Sudzuki, 1971); Delta of r. Danube, Rom. (Zinevici & Teodorescu, 1991); R. Danube (Enaceanu & Brezeanu, 1970); Lakes in the Leczna-Wlodawa area, E Poland (Radwan, 1976); Hamburg area, G (Rühmann, 1961); Hamburg harbour, G. (Rühmann, 1962); Middle course of r. Loire, France (Lair & Sargos, 1981); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); Ponds in the Paris suburb, France (Pourriot, 1965); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Mt. Fuji area, Japan (Sudzuki, 1978a); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Periphytic biota in sewage & park waters, Japan (Sudzuki, 1981); Lakes around Mt. Fuji, Japan (Sudzuki, 1971b); Serbian section of R. Danube (Zivkovic, 1987); Experimental ponds at Golysz, Poland (Lemkowicz, 1971; Zürek, 1974); Lake Biwa-ko, Japan (Yamamoto, 1960b); Lakes of Hokuriki district, Japan (Kanetsuna, 1973); R. Meuse Liégeoise, Belgium (Baiverlin, 1984); Lake Kus, Turkey (Ustaoglu & Balik, 1990a); Experimental fishponds near Warsaw, Pol. (Spodniewska *et al.*, 1966); Leczna-Wlodawa Lake district, E Poland (Radwan, 1984); Acid ponds in Lower Austria (Wawrik, 1972); Korea (Turner, 1986); Japanese inland waters (Yamamoto, 1960a); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lower Danube, Rom. (Enaceanu, 1964); Predeltaic area of the D. in the Black Sea (Popescu-Marinescu, 1974); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Highly eutrophic lake Czarna Kuta, Poland (Brinska *et al.*, 1976); R. Nieuwe Merwede, r. Lek, r. Rijn-Maas; pond near Enschede; L. Naardemeer; L. Loenerveense plas; L. Hilversumse wasmeer; r. Vecht, r. Maas; Susteren; pool "Vechten" near Nijmegen, NL (Dresscher, 1976); Hoevenen & Overmere, Belgium (De Ridder, 1986); Lakes of the Black Sea shore, Rom. (Godeanu, 1970b); Lakes N of Bucarest, Rom. (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of r. Odra, Poland (Klimowicz, 1979); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Lake Baikal, R.F. (Koshov, 1963); R. Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); Lake Tabacarie, Rom. & L. Agigea (Rodewald-Rudescu & Godeanu, 1961); Ponds of Oltina, SE Dobrogea, Rom. (Popescu-Gorj & Costa, 1961); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); R. Loire, at St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982)

- Oriental region: Sri Lanka (Fernando, 1969); Storage reservoir Ajwa + Nimeta water works, *ibid.*, near Baroda, India (Wulfert, 1966); Orissa, E India (Sharma, 1978c); Fishponds in Burdwan, W Bengal, India (Mandal, 1976); India (Sharma & Michael, 1980; Sharma, 1983); Malacca, peninsula Malacca, SE Asia (De Maeseneer, 1976); River Yamuna, India (Rai, 1974; Novotna-Dvorakova, 1963); Singapore (Karukanaran & Johnson, 1978); Rajasthan, India (Nayar, 1968); Taiwan, Malaysia, Singapore, India (Sudzuki, 1989); Taiwan, warm waters; not so common in the Oriental region (Sudzuki, 1991); Naini Lake, Indranagar Tank, Stocking Tank & Nursery Tank, Delhi, India (George, 1966); 2 shallow ponds near Delhi, India (George, 1961b); Ajwa res., near Baroda, Gujarat, W India (Jayangaudar, 1980); Fishponds at Barrackpole, W Bengal State, India (Michael, 1968); Thailand (Boonsom, 1984b); Andhra Pradesh, India (Dhanapathi, 1974b); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Panjab State, NW India (Sharma, 1980); West Bengal, NE India (Sharma, 1979a)

- Australian region: Darling river, SE Aust. (Koste & Shiel, 1980; Shiel, 1985); S Aust. & Vic (Shiel & Koste, 1979); Rivers & lakes in E Aust. Polytherm, in fresh and brackish shallow waters, often in vast numbers (Shiel, 1983); Not recorded from America. Qld, SA, Vic. common in Aust. (Koste & Shiel, 1987b); Australia (Koste, 1979); Rivers of the Darling-Murray system, Aust. (Shiel, 1986); Murray river at Mannum, S Aust. (Shiel, 1979)

- Neotropical region: Lower Orinoco and its delta, Venezuela (Vasquez & Rey, 1989)

Brachionus diversicornis (Daday) f. *convergens* Rod.-Rudescu & God. 1961

- Palaeartic region: Lake Tabacarie, Romania (Rodewald-Rudescu & Godeanu, 1961); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968)

Brachionus diversicornis (Daday) f. *homoceros* Wierzejski, 1981

- Palaeartic region: Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lakes N of Bucarest, Romania (Godeanu, 1969b); Lake Victoria, Oltenia area, Romania (Marx *et al.*, 1967); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979); L. Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Aegean lakes, Maced., ex-Yug. & Greece (Serafimova-Hadzicse, 1974); Serbian section of r. Danube (Zivkovic, 1987); Heiluntian province, China (Bogoslowski, 1962); Romania (Rudescu, 1960); Delta of r. Danube (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Volga r. & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Kiev reservoir, R.F. (Polishchuk, 1987); R. Danube, Romania (Enaceanu & Brezeanu, 1970); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Leczna-Wlodawa Lake District, E Poland (Kowalczyk & Radwan, 1982); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Hamburg area, Germany (Rühmann, 1961);

Hamburg harbour, Germany (Rühmann, 1962)

Brachionus dolabratus Harring, 1915

- Palaeartic region: Palaeartic & Neotropical regions (Pejler, 1977); Europe & S America (Dumont, 1983); R. Loire, France (Lair *et al.*, 1978; Lair, 1980); Middle course of r. Loire, France (Lair & Sargos, 1981)
 - Neotropical region: Freshwaters in Argentina (Paggi, 1973); Eutrophic waters Santa Fé, Argentina (José de Paggi, 1976a); River Parana, Argentina (José de Paggi, 1978a, 1985); Ecuador: Oriente (Koste & Böttger, 1989); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Brazil, Panama, Venezuela. Also N Dakota, USA (Koste, 1972f); Brazil, Argentina, Venezuela, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Prov. Corrientes & Santa Fé, Argentina (José de Paggi, 1990); Panama (Collado *et al.*, 1984); Lake Monte Alegre, SE Brazil (Arcifa *et al.*, 1992); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); Laguna la Orsinera, a floodplain lake, Ven. (Twombly & Lewis Jr., 1987); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/80); Mato Grosso, Brazil (Turner & Da Silva, 1992); Lago Biunçu, Amazonia, Brazil (Schaden, 1977c); Lago Castanho, Amazonia (Serruya & Pollingher, 1984); Lago Cristalino, Amazonia (Hardy, 1980); L. Aguilera, Orinoco floodplain lake, Ven. (Hamilton *et al.*, 1990)

Brachionus donneri Brehm, 1951

- Oriental region: Cambodia (Bērziņš, 1973a); India (Sharma & Michael, 1980); India, Cambodia, Sri Lanka (Sharma, 1983); Asia (India?) (Dumont, 1983); Sri Lanka (Fernando, 1980a; Serruya & Pollingher, 1984); Oriental region (Pejler, 1977); India, Sri Lanka, Cambodia (Sudzuki, 1989); Sri Lanka, in 2 localities (Chengalath, Fernando & Koste, 1973); Thailand (Boonsom, 1984b)
 - Australian region: Alkaline waters of tropical America, S and SE Asia. Possibly also in tropical Aust., not yet recorded. (Koste & Shiel, 1987b)
 - Neotropical region: Gatun Lake, Panama (Sharma, 1983); Panama (Koste & José de Paggi, 1982); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Brachionus durgai Dhanapati, 1974

- Palaeartic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)
 - Oriental region: Andhra Pradesh, S India (Dhanapati, 1974b); India (Sharma & Michael, 1980; Sharma, 1983; Sudzuki, 1989)

Brachionus durgai Dhanapati, f. *isigakiensis* Sudzuki, 1992

- Palaeartic region: Southwest islands of Japan (Sudzuki, 1992)

Brachionus falcatus Zacharias, 1989

- Palaeartic region: Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lake Biwa, Japan (Yamamoto, 1967; Hillbricht-Ilkowska, 1983a & 1983b); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989); Palaeartic, Ethiopian, Indian, Australian & Neotropical regions (Pejler, 1977); R. Guadalquivir, S Spain (Guisante & Toja, 1988); Middle course r. Po, Italy (Ferrari *et al.*, 1986); L. Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Slovenia, ex-Yugoslavia (Markic, 1983); All continents (Dumont, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Savra Lake, ex-Yugoslavia (Kalafatic, 1970); Romania (Rudescu, 1960); Po river, Italy (Ferrari *et al.*, 1989); Near Szarvas, Hungary (Tamas, 1975); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Aral Sea spawning grounds, R.F. (Jerekeyev & Kazakhbayev, 1972); All over Europe. Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); Inundation area of Danube delta, Rom. (Dorobantu, 1964); Ponds in Rambouillet, Yvelines, France (Pourriot *et al.*, 1969); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Spanish reservoirs (de Manuel, 1991); Soviet section of r. Danube (Parchuk, 1985); Caucasus (Kasimov, 1966); Acid ponds in lower Austria (Wawrik, 1972); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Lower Danube in Romania (Enaceanu, 1964); Funada-ike pond, Chiba, Japan (Urabe, 1992); Etang de Pommereau, (Loir-et-Cher), France (Tassigny *et al.*, 1970); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); R. Danube (Enaceanu & Brezeanu, 1970); Lake N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Ponds in the Paris suburb, France (Pourriot, 1965); Fukushima Prefecture, Japan (Sudzuki, 1982); Spain: Sevilla; Portugal: Beja (Velasco, 1990); Rybnik Dam reservoir, Poland (Krzanowski, 1979); Waters near r. Bodrog, NE Hungary (Dévai *et al.*, 1972/73); Lagoon Sacca del Canarin, Po r., Italy (Ferrari *et al.*, 1985); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); Middle course of r. Danube (Lair & Sargos, 1981); Serbian section of r. Danube (Zivkovic, 1987); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Lake Biwa-ko, Japan (Yamamoto, 1960b)
 - Nearctic region: San Francisco, USA (Nogrady, 1983)
 - Oriental region: Parakrama Samudra, Sri Lanka (Duncan, 1983a & 1983b; Duncan & Gulati, 1981; Fernando & Rajapaksa, 1983); Thailand (Boonsom, 1984b); Andhra Pradesh, India (Dhanapathi, 1974b);

W & S Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990); River Yamuna, India (Novotna-Dvorakova, 1963; Rai, 1974); Panjab State, India (Sharma, 1976 & 1980); West Bengal, NE India (Sharma, 1979a); Orissa, E India (Sharma, 1978c); 2 sewage channels of Gwalior, India (Saksena & Kulkarni, 1986); Bangkok & Pool in Xieng Mai, Thailand (De Ridder, 1971); Lake Ranu Lamongau, India (Green *et al.*, 1976); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1985); Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969); Malacca peninsula (Dunn, 1970); Lake Manguao, Palawan, The Philippines (Davis & Green, 1990); Suraj Kund, India (Sarkar & Rai, 1964); Storage reservoir Ajwa, near Baroda, India (Wulfert, 1966); L. Khan Payao, India (Serruya & Pollingher, 1984); Singapore (Karunakaran & Johnson, 1978); Rajasthan, India (Nayar, 1968); Fishpond Burdwan, W Bengal, India (Mandal, 1976); Tank near Nagpur, C India (Arora, 1962b & 1966c); India (Sharma & Michael, 1980; Sharma, 1983); Malacca, peninsula Malacca, SE Asia (De Maeseneer, 1976); Lake Parakrama, Sri Lanka (Fernando, 1984); Sri Lanka (Fernando, 1980a); Shallow ponds in Delhi, India (George, 1961); Taiwan, Thailand, Malaysia, Singapore, India, Sri Lanka (Sudzuki, 1989); Bung-Borapet, C Thailand (Mizuno & Mori, 1970); Kalimantan (Borneo), Indonesia (Koste, 1988); Victoria reservoir, Sri Lanka (Piyasiri & Jayakody, 1991); Sri Lanka: very common in all types of habitats (Chengalath, Fernando & Koste, 1973); Fishponds in Barrackpore, W Bengal State, India (Wulfert, 1966); Naini Lake, Indranagar Tank, Stocking Tank & Nursery Tank, Delhi, India (George, 1966); Ajwa Res., near Baroda, Gujarat, W India (Jayangaudar, 1980); Kerala, S India (Nayar & Nair, 1969); Nimeta waterworks, near Baroda, India (Wulfert, 1966); Freshwater pond at Bakreswar, W Bengal, India (Jana, 1973)

- Australian region: Billabongs r. Murray, SE Aust. (Shiel & Koste, 1983); Qld, Vic & S Aust. (Shiel & Koste, 1979); Australia (Shiel, 1980); Rivers, lakes & billabongs all over Aust. (Shiel, 1983); Pantropical & pansubtropical, thermophile. Not recorded from N Asia and N America, but known from Europe in warm summers. Aust. (Koste & Shiel, 1987b); E Aust. (Koste & Shiel, 1980b); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers region, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Darling river, S Aust. (Shiel, 1986); Rivers, billabongs & reservoirs of the Murray-Darling system, Aust. (Shiel, 1986); Murray river, Aust. (Serruya & Pollingher, 1984); Murray river at Mannum, S Aust. (Shiel, 1979)

- Neotropical region: Antilles françaises (Pourriot, 1975); Amazonia, Brazil (Thomasson, 1971; Koste, 1972f); Paraguay, Venezuela, Panama (Koste, 1972f); Mato Grosso, Brazil (Turner & Da Silva, 1992); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b); Rio Tocantins, Lago do Passarinho, L. Jacaretinga, L. Buiçu, L. Moratu & Rio Negro, Amazonia, Brazil (Schaden, 1977c); L. Castanho & L. Jacaretinga, Amazonia, Brazil, Lake Izabal, C America (Serruya & Pollingher, 1984); Lake Cocibola, Nicaragua (Moreno *et al.*, 1992); Floodplain lake of the Lower Orinoco, Ven. (Vasquez *et al.*, 1991); Lago de Valencia, Venezuela (De Infante, 1980); Lago Rio Claro, Venezuela (Vasquez & Medina, 1991); L. Castanho & L. Jacaretinga, Amazonia (Hardy, 1980); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/80); Amazonia, Brazil (Gillard, 1967); Surinam (Leentvaar, 1975); Brokopondo Lake, Surinam (Leentvaar, 1979); Broa reservoir, Sao Paulo State, Brazil (Matsumura-Tundisi & Tundisi, 1976; Matsumura *et al.*, 1989); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1985); Eutrophic water Santa Fé, Argentina (José de Paggi, 1979a); River Santa Fé, Argentina (José de Paggi, 1976b); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco river and its Delta, Ven. (Vasquez & Rey, 1989); Lago do Macaco, Brazil (Koste, 1989a); Lago Açú, Maranhão, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Prov. Corrientes & Santa Fé, Argentina (José de Paggi, 1990); Lake Monte Alegre, SE Brazil (Arcifa *et al.*, 1992)

Brachionus falcatus Zacharias, f. *lyratus* Lemmermann, 1908

- Oriental region: India (Sharma & Michael, 1980)

Brachionus falcatus Zacharias, f. *reductus* Koste & Shiel, 1983

- Australian region: Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Billabongs of Magela Creek, NT, Aust. (Shiel, 1983); Endemic of Magela Creek, NT & L. Moandarra, Qld (Koste & Shiel, 1987b); NT, Aust (Shiel & Koste, 1985)

Brachionus forficula Wierzejski, 1891

- Palaearctic region: Heiluntian province, China (Bogoslowski, 1962); Afghanistan (Bērziņš, 1991); Delta of r. Danube (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989; Zinevici & Teodorescu, 1990); Europe, Asia, Africa (Dumont, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Lake Biwa, Japan (Hillbricht-Ilkowska, 1983a & 1983b); Romania (Rudescu, 1960); Palearctic, Ethiopian & Indian regions (Pejler, 1977); Inundation area of Danube delta, Rom. (Dorobantu, 1964); Canals in Hran area, CSR (Terek, 1990c); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Rivers in Kazakhstan, R.F. (Petrova, 1976); Balkan, C Eur. mountains, Carpathes, Hungarian plain, Pontic prov., C & E Eur. lowland, NW Russ. taiga;

Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); Japanese inland waters (Yamamoto, 1960a); Serbian section of r. Danube (Zivkovic, 1987); Lakes of Hokuriki district, Japan (Kanetsuna, 1973); Southwest islands of Japan (Sudzuki *et al.*, 1992); River Oder, Germany (Walter & Scharf, 1961); Funada-Ike pond, Chiba, Japan (Urabe, 1992); River Danube (Enaceanu & Brezeanu, 1970); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Fukushima Prefecture, Japan (Sudzuki, 1982)

- Oriental region: Suray Kund, India (Sarkar & Ray, 1964); Storage reservoir Ajwa, near Baroda, India; Prata pura res., *ibid.*; waterworks at Nimeta (Wulfert, 1966); Lake Khan Payao (Serruya & Pollingher, 1984); Malacca peninsula (De Maeseneer, 1976; Dunn, 1970); Ajwa reservoir, near Baroda, Gujarat, India (Jayangaudar, 1980); Fishpond at Barrackpore, W Bengal, India (Michael, 1968); Parakrama Samudra, Sri Lanka (Duncan & Gulati, 1981; Duncan, 1983a & 1983b; Fernando & Rajapaksa, 1983); Thailand (Boonsom, 1984b); Andhra Pradesh, India (Dhanapathi, 1974b); Reservoir Parakrama Samudra, Sri Lanka (Duncan, 1984); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990); River Yamuna, India (Novotna-Dvorakova, 1983; Ray, 1974); Panjab State, NW India (Sharma, 1980); West Bengal, NE India (Sharma, 1979a); Orissa, E India (Sharma, 1978c); Bangkok, Thailand (De Ridder, 1971); Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969); Kerala, S India (Nayar & Nair, 1969); Fishpond Burdwan, W Bengal, India (Mandal, 1976); Tank near Nagpur, C India (Arora, 1962b & 1966c); Girikbe Tank, Sri Lanka (Bērziņš, 1982a); India (Sharma & Michael, 1980; Sharma, 1983 & 1987); Lake Parakrama Samudra, Sri Lanka (Fernando, 1984); Sri Lanka (Fernando, 1980a); Singapore (Karunakaran & Johnson, 1978); Taiwan, Thailand, Malaysia, Singapore, India, Sri Lanka, Indonesia (Sudzuki, 1989); Sri Lanka: very common in large and small lakes, rivers, rice fields & ponds (Chengalath, Fernando & Koste, 1973); Singapore, Taiwan. Warm water species (Sudzuki, 1991); Naini Lake, Delhi, India (George, 1966); Malaysia (Ueno, 1966); Victoria reservoir, Sri Lanka (Piyasiri & Jayakody, 1991); Rajasthan, India (Nayar, 1968)

- Australian region: Lakes in tropical Qld, Aust. (Shiel, 1983); Subtropical, in the plankton of freshwater lakes & ponds. Not recorded from N & S Am. (Koste & Shiel, 1978b)

- Neotropical region: Lower Orinoco river and its delta, Venezuela (Vasquez & Rey, 1989); L. Rio Claro, floodplain lake of the lower Orinoco, Venezuela (Vasquez & Medina, 1991); In a floodplain lake of the lower Orinoco, Ven. (Vasquez *et al.*, 1991)

***Brachionus forficula* Wierzejski, f. *divergens* Fadeev, 1925**

- Palaeartic region: Serbian section of r. Danube (Zivkovic, 1987)

***Brachionus forficula* Wierzejski, f. *inegalis* Rodewald, 1940**

- Palaeartic region: Black Sea (Rudescu, 1961)

***Brachionus forficula* Wierzejski, f. *minor* Voronkov, 1913**

- Palaeartic region: Serbian section of r. Danube (Zivkovic, 1987); Black Sea (Rudescu, 1961); Obretin L. embanked basin, Romania (Dorobantu, 1964; Godeanu *et al.*, 1973)

- Oriental region: Mizoram, NE India (Sharma, 1987); Panjab State, NW India (Sharma, 1980); W Bengal, NE India (Sharma, 1979); W & E Malaysia & Singapore (Fernando & Zankai, 1981)

***Brachionus forficula* Wierzejski, f. *semiangularis* Rudescu, 1960**

- Palaeartic region: Lakes of the Black Sea shore (Godeanu, 1970b)

***Brachionus forficula* Wierzejski, f. *volgensis* Skorikov, 1914**

- Palaeartic region: Lake Victoria, Oltenia area, Romania (Marx *et al.*, 1967); River Volga, R.F. (Mordukhai-Boltovskoi, 1979)

***Brachionus forficula* Wierzejski, f. *voronkovi* Fadeev, 1925**

- Palaeartic region: Serbian section of r. Danube (Zivkovic, 1987)

***Brachionus gessneri* Hauer, 1956**

- Neotropical region: Island Lake & L. Hemmen, Rio Snia Missu, Mato Grosso, Brazil (Green, 1972); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco and its delta, Venezuela (Vasquez & Rey, 1989); Lago do Macaco, Brazil (Koste, 1989a); Amazonia, Brazil; Venezuela (Koste, 1972f); Brazil & Venezuela (Koste & José de Paggi, 1982); Rio Jatapu & r. Uatuma, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Prov. Corrientes, Argentina (José de Paggi, 1990); Amazonia, Brazil (Hauer, 1965b; Gillard, 1967; Thomasson, 1971); Lakes Playa Blanca, Orsinera & Jobera, Orinoco floodplain lakes, Venezuela (Vasquez & Rey, 1992); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b); Rio Tocantins, Lago Buincu, Lago Tefé, Rio Negro & L. do Castanho, Amazonia (Schaden, 1977c); Lago Cristalino & L. Taruma-Mirim, Amazonia (Hardy, 1980); L. do Castanho & L. Cristalino, Amazonia (Serruya & Pollingher, 1984); Oriente, Ecuador (Koste & Böttger, 1992); Flooded savanna at Mantecal, Venezuela (Michelangeli *et al.*, 1979/80)

***Brachionus gillardi* Hauer, 1966**

- Neotropical region: Lagoons of r. Amazonia, Brazil (Hauer, 1966); Neotropical region (Pejler, 1977); S America (Dumont, 1983); Amazonia, Brazil (Koste, 1972f); Brazil (Koste & José de Paggi, 1982); Rio Jatapu & r. Uatuma, Amazonia (Koste & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Lower Orinoco river and its delta, Venezuela (Vasquez & Rey, 1989)

***Brachionus havanaensis* Rousselet, 1911**

- Palaeartic region: R. Loire, France (Lair, 1980; Lair & Sargos, 1981)

- Nearctic region: Great Dismal Swamp, border Virginia-N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Illinois & Kentucky, USA (Bērziņš, 1984); Lake Brooker, Florida, USA (Scheda & Cowell, 1988); Illinois river, USA (Brown *et al.*, 1989); Altiplanicio Central, Mexico (Vilaclara & Sladeczek, 1989); Nearctic & Neotropical regions (Pejler, 1977); Lake Weir, N C Florida, USA (Beaver & Crisman, 1990); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Lakes at Santee, California (Nogrady, 1982 & 1983); Laurentian Great Lakes (Stemberger, 1979); Lakes in Florida (Dawes *et al.*, 1987); Experimental ponds, C Florida (Fry & Osborne, 1980); Lake Sangchris, Illinois, USA (Harmsworth, 1975); Lake Beauclair, Florida (Elmore *et al.*, 1984); Near Monroe, Louisiana, USA (Gallagher, 1966); USA (Olivier, 1965); Massey lake, 16 km N of Beaumont, Texas (Marsh *et al.*, 1978)

- Australian region: Australia & S America (Dumont, 1983)

- Neotropical region: Laguna del Tesoro, Cuba (Alonso, 1984); L. Valencia, Venezuela (Serruya & Pollingher, 1984); Rapelreservoir, C Chile (Soto *et al.*, 1984); Surinam (Leentvaar, 1975); Eutrophic water Santa Fé, Argentina (José de Paggi, 1976a); River Santa Fé, Argentina (José de Paggi, 1976b); R. Saladillo basin, Argentina (José de Paggi & Koste, 1988); River Parana, Argentina (José de Paggi, 1985); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Lago Açu, Maranhão, Brazil (Reid & Turner, 1988); Brazil, Venezuela, Colombia, Argentina, Surinam (Koste & José de Paggi, 1982); L. Coca-Cola, near Rio de Janeiro, Brazil (Turner, 1990); Chilean lakes (Schmid-Araya, 1991); Lake Xolotlan, Nicaragua (Cisneros & Mangas, 1991); Prov. Chubut, San Luis, San Juan, Salta, Corrientes, Santa Fé & Buenos Aires, Arg. (José de Paggi, 1990); Caribbean part of the Neotropical region (De Ridder, 1977); Lake Rio Claro, a floodplain lake of the Lower Orinoco, Venezuela (Vasquez & Medina, 1991); Argentine Patagonia (Kuczynski, 1987b); Lake Izabal, Guatemala (Brinson & Nordlie, 1975); Bonaire, Caribbean islands, Costa Rica, Cuba, El Salvador, Guatemala & Nicaragua (Collado *et al.*, 1984); Floodplain lake of the lower Orinoco, Ven. (Vasquez *et al.*, 1991); Lago de Valencia, Venezuela (Saunders, 1980; De Infante, 1980; Saunders & Lewis Jr., 1988; De Infante, 1982); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); L. Rio Claro, floodplain lake of the Orinoco, Venezuela (Vasquez & Rey, 1992); Laguna Masaya, Nicaragua (De Ridder, 1966b); Lake Aguilera, Orinoco floodplain lake, Ven. (Hamilton *et al.*, 1990); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Prov. Buenos Aires, Argentina; Mexico (Olivier, 1965); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); L. Cocibolca, L. Xolotlan, L. Masaya, L. Tiscapa, L. Monte Galan, pond in Esteli & pond UCA, Nicaragua (Moreno *et al.*, 1992)

***Brachionus havanaensis* Rousselet, f. *trahea* Murray, 1913**

- Nearctic region: Ontario, Canada (Chengalath *et al.*, 1971; Chengalath & Fernando, 1973); Canada (Chengalath, 1977); Near Monroe, Louisiana, USA (Gallagher, 1966)

- Neotropical region: Lake Managua, Nicaragua (De Ridder, 1966b); Caribbean part of the Neotropical region (De Ridder, 1977); C & S America (Dumont, 1983); Reconquista river, Argentina (Kuczynski, 1987)

- Antarctic region: 25 de Mayo (King George) Island, S Shetland (Kuczynski, 1987)

***Brachionus incertus* Hauer, 1953**

- Neotropical region: Brazil (Koste & José de Paggi, 1982); S America (Dumont, 1983)

***Brachionus inermispinosus* De Smet, 1987**

- Neotropical region: Galapagos Islands (De Smet, 1987 & 1989)

***Brachionus kasadensis* Sudzuki, 1976**

- Palaeartic region: In an inland sea round Kasada island, Japan (Sudzuki, 1976a & 1976b)

***Brachionus keikoa* Koste, 1979**

- Australian region: Murray river system, S Aust. (Koste, 1979); R. Murray at Mannum, S Aust. (Shiel, 1979; Koste, 1980); Darling river, SE Aust. (Koste & Shiel, 1980; Shiel, 1985); Australia (Shiel, 1981; Dumont, 1983); S Aust. & Qld, Aust. (Shiel & Koste, 1979); Rivers & billabongs in Darling basin, Aust. Australian endemic (Shiel, 1983); Endemic, known only from the Murray-Darling basin, Qld; Lachlan swamps, NSW; S Australia (Koste & Shiel, 1987b); Murray river (Serruya & Pollingher, 1984)

***Brachionus kostei* Shiel, 1983**

- Australian region: Sheepwash billabong, river & billabong in Goulburn, near Molesworth, Victoria. Australian endemic (Shiel, 1983); Australia (Dumont, 1983); Vic, Aust. (Shiel & Koste, 1985); Billabongs of the Murray-Darling system, Aust. (Shiel, 1986b); Endemic, only known from Sheepwash billabong near

Yea, Victoria (Koste & Shiel, 1987b)

Brachionus kultrum Paggi, 1981

- Neotropical region: Patagonian tableland, S Argentina (Paggi, 1981); Argentina (Koste & José de Paggi, 1982); S America (Dumont, 1983); Prov. Santa Cruz & Neuquen, Argentina (José de Paggi, 1990)

Brachionus leydigi Cohn, 1962

- Palaearctic region: Canal de Séclin, Nord, France (Angeli, 1972); River Loire, France (Lair, 1980); "Altes Land" near Hamburg, Germany (Heckman, 1986); River Guadalquivir, S Spain (Guisande & Toja, 1988); Lagoon of Cullera, 35 km S of Valencia, La Albufera de Valencia (Miracle *et al.*, 1988); Brackish waters along the Sp. Mediterr. Sea (Miracle *et al.*, 1987); Australia, N America, Europe, Asia, Africa (Dumont, 1983); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Lake Teganuma, C Japan (Takamura *et al.*, 1989); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Romania (Rudescu, 1960); Palaearctic, Nearctic, Ethiopian, Indian & Australian regions (Pejler, 1977); C & S Sweden (Pejler & Bērziņš, 1989); River Hase, NW Germany (Koste, 1976b); Lake Alfsee, NW Germany (Koste & Poltz, 1987); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); All over Europe; Caspian area, Asia minor (Bērziņš, 1978); Medium-size rivers, tributary to Kiev res., R.F. (Polishchuk, 1987); Mare de la Bénerie, Paris suburb, France (Pourriot *et al.*, 1969); Boatracing canal, Gent, Belgium (De Maeseneer, 1972; Vanderbeken, 1977; Coussement, 1982); R. Meuse Liégeoise, Belgium (Baiverlin, 1984); Farm pond near Liège, Belgium (Depoortere & Magis, 1973); Impoundment Twistetalsperre, Nordhessen, Germany (Meinel *et al.*, 1983); Spanish reservoirs (de Manuel, 1991); Soviet section of r. Danube (Parchuk, 1987); Korea (Turner, 1986); Japanese inland waters (Yamamoto, 1960a); Sava Lake, ex-Yugoslavia (Kalafatic, 1978); R. Danube (Austria to Romania) (Wawrik, 1968); Hudsons Bay & Hoveton Great Broad, E Anglia, UK (Timms & Moss, 1984); Impoundment Helme, near Kylbra (Kyffhäuser), Germany (Heynig, 1974); Spaarnwoude polder ditches, NL (Oosten, 1972); Spaarnwoude polder ditches; A' dam; Nat. Res. Meyendel; R. Rijn, Waal & Yssel; Prov. Zuid-Limburg; Zuiderzee & Ysselmeer; R. Maas (Dresscher, 1976); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); 3 localities in Belgium (De Ridder, 1986); River Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary, Germany (Schulz, 1961); Canal Leeds-Liverpool, UK (Galliford, 1960b); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of r. Odra, Poland (Klimowicz, 1979); Lowland brook-pond system, Boom, Belgium (Maes, 1985); L. Victoria, Oltenia area, Romania (Marx *et al.*, 1967); R. Oltet and its principal tributaries, Romania (Rogoz, 1972); Middle course of R. Loire, France (Lair & Sargos, 1981); Ponds & moats of castle in the Paris suburb, Fr. (Pourriot, 1965); Kakhova reservoir, near Lysaya Gora, R.F. (Pashkova, 1992); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Fukushima Prefecture, Japan (Sudzuki, 1982); Serbian section of r. Danube (Zivkovic, 1987); Spain: Sevilla (Velasco, 1990)

- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Fernando, 1980a); Sri Lanka, India, Philippines (Sudzuki, 1989); Sri Lanka: rare, occurs in large and small lakes (Cheng., Fernando & Koste, 1973); Naini Lake, Delhi, India (George, 1966); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); River Yamuna, India (Rai, 1974); Panjab State, NW India (Sharma, 1976 & 1980); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1985)

- Australian region: Billabongs, E Aust. (Shiel, 1983); Cosmopolitan in eutrophic lakes and ponds. Qld in Australia (Koste & Shiel, 1987b)

Brachionus leydigi Cohn, f. *quadratus* Rousselet, 1889

- Palaearctic region: Romania (Rudescu, 1960); Delta of r. Danube, Romania (Prunescu-Arion, 1989; Zinevici & Teodorescu, 1990); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1965); Volga River, R.F. (V'yushkova & Lakhnova, 1974); C Eur. plains, Hungarian plain, Pontic province, W & E Eur. plains, Baltic Province, UK (Bērziņš, 1978); Kiev reservoir, R.F. (Polishchuk, 1987); Inundation area of Danube delta, Romania (Dorobantu, 1964); Soviet section of r. Danube (Parchuk, 1985); Cherepet' power plant, S of Moscow, R.F. (Kuznetsova, 1982); Spaarnwoude polder ditches, NL (Oosten, 1972); Spaarnwoude polder ditches; A'dam; Nat. Reserve Meyendel; R. Waal, Rijn & Yssel; Prov. Zuid-Limb.; Zuiderzee & Ysselmeer; R. Maas (Dresscher, 1976); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Hamburg area, Germany (Rühmann, 1961); Serbian section of r. Danube (Zivkovic, 1987)

- Australian region: Palmerston South, New Zealand (Russell, 1960)

- Neotropical region: Surinam (Leentvaar, 1975)

Brachionus leydigi Cohn, f. *rotundus* Rousselet, 1907

- Palaearctic region: R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); C Eur. mountains, Hung. plain, Pontic province, W, C & E Eur. plains, UK; Caucasus, Caspian area (Bērziņš, 1978); Kiev reservoir, R.F. (Polishchuk, 1987); Soviet section of r. Danube (Parchuk, 1987); Korea (Turner, 1986); R. Elbe estuary, Germany (Schulz, 1961); Pools in the Paris suburb, France (Pourriot, 1965); Garden Ponds in

Tokyo, Japan (Sudzuki, 1975); Romania (Rudescu, 1960); Near Asperg, Württemberg, Germ. (Klement, 1960); Lake Numasawa, Japan (Sudzuki *et al.*, 1983); Delta of r. Danube (Prunescu-Arion, 1989)

- Oriental region: Malaysia & Singapore (Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981)

- Australian region: Vic, Aust. (Shiel & Koste, 1979); Billabongs of r. Murray, Aust. (Shiel, 1983); Vic, Aust. Also palaeartic. Eurytherm (Koste & Shiel, 1987c)

***Brachionus leydigi* Cohn, f. *tridentatus* Sernov, 1901**

- Palaeartic region: Impoundment "Eisernes Tor", Danube, Rom. (Brezeanu & Peten, 1973); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Impoundment Kninicki, CSR (Kubicek, 1964); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Romania (Rudescu, 1960); L. Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Inundation area of r. Danube, Romania (Dorobantu, 1964); Delta of r. Danube, Romania (Zinevici & Teodorescu, 1991); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); All over Europe; Caspian area, Asia Minor (Bērziņš, 1978); Kiev reservoir, R.F. (Polishchuk, 1987); Soviet section of r. Danube (Parchuk, 1985); Cherepet' power plant, S of Moscow, R.F. (Kuznetsova, 1982); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of r. Danube, at the German-Austrian border (Donner, 1972); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Spaarnwoude polder ditches, NL (Oosten, 1972); Spaarnwoude polder ditches; A'dam; R. Waal, Rijn & Yssel; Prov. Zuid-Limburg; Zuiderzee & Ysselmeer; R. Maas; Nat. Res. Meyendel, NL (Dresscher, 1976); L. Neusiedlersee, Austria (Donner, 1972d & 1979); Lotenhulle, Belgium (De Maeseneer, 1979); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Bulgarian bank of r. Danube (Naidenow, 1963); Hamburg area & Harbour, Germany (Rühmann, 1961 & 1962); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Serbian section of r. Danube (Zivkovic, 1987)

***Brachionus lyratus* Shephard, 1911**

- Australian region: Australia (Shiel, 1981; Dumont, 1983); Billabongs of r. Murray, SE Aust. (Shiel & Koste, 1983); Tasmania (Koste & Shiel, 1987a); Billabongs E. Aust. Australian endemic (Shiel, 1983); Endemic. NT, Vic, Qld, S Aust. Uncommon (Koste & Shiel, 1987b); E Aust. (Koste & Shiel, 1980b); Vic. Aust. (Koste & Shiel, 1980c); Alligator rivers region, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Billabongs of the Murray-Darling system, Aust. (Shiel, 1986); Billabongs of the r. Murray floodplain, NSW (Hillman & Shiel, 1991)

***Brachionus lyratus tasmaniensis* Koste & Shiel, 1986**

- Australian region: Tasmania (Koste & Shiel, 1986b); Stock dams near Karonya, Tasmania (Koste & Shiel, 1987b; Shiel, Koste & Tan, 1989)

***Brachionus lyratus yonaguniensis* Sudzuki, 1992**

- Palaeartic region: Southwest islands of Japan (Sudzuki, 1992; Sudzuki *et al.*, 1992)

***Brachionus mirus* Daday, 1905**

- Neotropical region: Neotropis (Pejler, 1977); S America (Dumont, 1983); Freshwaters in Argentina (Paggi, 1973); River Parana, Argentina (Paggi & José de Paggi, 1974); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Lago Viana Canal, Maranhão, Brazil (Reid & Turner, 1988); Amazonia, Brazil & Paraguay (Koste, 1972f); Paraguay, Brazil, Argentina, Venezuela, Peru (K. & José de Paggi, 1982); Rio Yatapu & r. Uatumã, Amazonia, Brazil (Koste & Hardy, 1984); Prov. Chaco & Santa Fé, Argentina (José de Paggi, 1990); Lago Orsinera, L. Jobera, L. Lagoven, Orinoco floodplain lakes, Venezuela (Vasquez & Rey, 1992); Laguna la Orsinera, a floodplain lake, Venezuela (Twombly & Lewis Jr., 1987); Lake Tinco, Orinoco floodplain lake, Venezuela (Hamilton *et al.*, 1990); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/80)

***Brachionus mirus* Daday, f. *angustus* Koste, 1972**

- Neotropical region: Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/80); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lower Orinoco & its delta, Ven. (Vasquez & Rey, 1989); Amazonia, Brazil (Koste, 1972f); Mato Grosso, Brazil (Turner & Da Silva, 1992); Brazil, Venezuela, Argentina (Koste & José de Paggi, 1982); Near Concepcion, Paraguay (Koste, 1986b); Prov. Santa Fé, Argentina (José de Paggi, 1990); Lago do Castanho & L. do Passarinho, Amazonia, Brazil (Schaden, 1977b)

***Brachionus mirus* Daday, f. *laticaudatus* Paggi, 1973**

- Neotropical region: Rio Parana Medio & laguna in Santa Fé prov., Argentina (Paggi, 1980); Argentina & Peru (Koste & José de Paggi, 1982); Freshwaters in Argentina (Paggi, 1971); Prov. Santa Fé, Argentina (José de Paggi, 1990); Pond in tropical rain forest, Peru (Schlüter, 1984); Mato Grosso, Brazil (Turner & Da Silva, 1992);

***Brachionus mirus* Daday, f. *reductus* Koste, 1972**

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984); Lago Açu, Maranhão, Brazil (Reid & Turner, 1988); Amazonia, Brazil (Koste, 1972f); Brazil & Venezuela (Koste & José de Paggi, 1982); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980)

Brachionus mirus Daday, f. *voigti* Hauer, 1961

- Neotropical region: Neotropis (Pejler, 1977); S America (Dumont, 1983); Prov. Santa Fé, Argentina (José de Paggi, 1990); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Freshwaters in Argentina (Paggi, 1971); River Parana, Argentina (José de Paggi, 1985); Amazonia, Brazil (Koste, 1972f); Brazil, Argentina, Venezuela (Koste & José de Paggi, 1982); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Rio Uatumã, Amazonia, Brazil (Koste & Hardy, 1984); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Lago do Castanho, near Manaus, Amaz., Br. (Schaden, 1977a, 1977b & 1977c)

Brachionus moronensis Kuczynski, 1991

- Neotropical region: Reconquista river, Argentina (Kuczynski, 1991)

Brachionus nilsoni Ahlstrom, 1940

- Palaearctic region: Palaearctic, Nearctic & Neotropical regions (Pejler, 1977); N and S America and Europe (Dumont, 1983); River Loire, France (Lair, 1980; Lair *et al.*, 1978); Heiluntian province, China (Bogoslowski, 1962); Minorca, Spain (de Manuel, 1990); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Caspian area (Bērziņš, 1978); Soviet section of r. Danube (Parchuk, 1985); Southwest islands of Japan (Sudzuki *et al.*, 1992); Balearic archipelago, Spain (de Manuel *et al.*, 1992); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Middle course of r. Loire, France (Lair & Sargos, 1981); R. Volga, R.F. (Mordukhai-Boltovskoi, 1979)

- Nearctic region: N America (Bērziņš, 1978)

- Oriental region: Sri Lanka: occurs in large & small lakes, in the littoral area (Cheng., Fernando & Koste, 1973; Fernando, 1980a); Taiwan (Sudzuki, 1988); Taiwan, Malaysia, Sri Lanka, India (Sudzuki, 1989); Parakrama Samudra, Sri Lanka (Duncan & Gulati, 1981); W & E Malaysia & Singapore (Fernando & Zankai, 1981); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985)

- Australian region: Lake Purumbete, Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1979); River Murray and its billabongs (Shiel, 1983); Murray-Darling basin (Qld, Vic, S Aust.). Rare (Koste & Shiel, 1987b); Australasia (Koste, 1979)

- Neotropical region: Rio Parana, Argentina (Paggi & José de Paggi, 1974); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Argentina (Modenutti & Claps, 1988); Arroyo Rodriguez, prov. de Buenos Aires, Arg. (Modenutti, 1987); Province in NW Argentina (José de Paggi, 1989); Argentina & Brazil (Koste & José de Paggi, 1982); Prov. La Rioja, Santa Fé & Buenos Aires, Arg. (José de Paggi, 1990); Dept. Parana, Argentina (Olivier, 1965)

Brachionus novaezealandiae Morris, 1913

- Palaearctic region: Palaearctic, Ethiopian & Australian regions (Pejler, 1977); Australia, Europe, Africa (Dumont, 1983); Hungarian plain (Bērziņš, 1978)

- Australian region: S Aust. & Vic (Shiel & Koste, 1979); Darling river, SE Aust. (Koste & Shiel, 1980; Shiel, 1985); Rivers and lakes all over Aust. (Shiel, 1983); S Aust. (Shiel & Koste, 1985b); Murray-Darling system, Aust. (Shiel, 1986); Cosmopolitan in sodium-dominated waters. NSW, Vic, S Aust. (Koste & Shiel, 1987b); Africa & New Zealand (Bērziņš, 1978); Totara, New Zealand (Russell, 1960); Murray river, Aust. (Serruya & Pollinger, 1984); Murray river at Mannum, S Aust. (Shiel, 1979)

Brachionus pinneaus Koste & Shiel, 1983

- Australian region: Australia (Dumont, 1983); SW Aust. (Koste, Shiel & Brock, 1983); Rivers in SW and W Aust. Endemic (Shiel, 1983); Endemic. Single record from W Aust. (Koste & Shiel, 1987b); Southwest W Aust. (Shiel & Koste, 1985)

Brachionus plicatilis O.F. Müller, 1786

- Palaearctic region: La Mancha, New Castillia, Spain (Armengol *et al.*, 1975); In mesohaline part of Lake Veerse Meer & river Westerschelde, NL (Bakker & De Pauw, 1975); Barther Bodden, S Baltic Sea, Germany (Arndt *et al.*, 1981 & 1984b; Vietinghoff *et al.*, 1984); Temporary salt lakes in Spain (Comin & Alonso, 1988); Albufera de Valencia, Spain (Oltra & Miracle, 1984); Salt-marshes of Cadiz, SW Spain (Yufera *et al.*, 1984); R. Guadalquivir, S Spain (Guisande & Toja, 1988); Lagoon "La Ricarda" near Barcelona, Spain (Miracle & Guiset, 1977); Lake Palaeostomi, Georgia, R.F. (Haberman, 1981; Haberman & Laugaste, 1982); Coast of Norvegia, Summer form here (Eriksen, 1968); Finland (Eriksen, 1969); Rockpools in S Finland (Björklund, 1972a); Saltwaterponds near Dor, Israel (Lubzens *et al.*, 1980); Castellon, Spain (King & Miracle, 1980); Lagoon "La Ricarda", 10 km S of Barcelona Lagoon "La Cullera", 35 km S of Valencia, La Albufera de Valencia, Spain (Miracle *et al.*, 1988); Dor fish farm, ± 40 km S of Haifa, Israel (Minkoff *et al.*, 1983); Specimens coming from Spain, Israel, China & USA (King

et al., 1983); In all water bodies along Med. coast, Spain (Serra & Miracle, 1983); Steppic waters in Spain (Miracle, 1972); Brackish waters along Span. Med. Sea (Miracle *et al.*, 1987); Lake Cullera, near Valencia, Spain (Miracle & Vicente, 1983); All continents, in salt water (Dumont, 1983); Camargue, S France (Luciani *et al.*, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Spanish coastal waters (Serra & Miracle, 1987); Japan (Hirati & Yamasaki, 1987); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Coastal lagoons of E and SE Spain (Serra & Miracle, 1985); Van Hunen Plak, Terschelling, NL (Leentvaar, 1967); Delta of r. Danube, Romania (Rudescu & Marinescu-Popescu, 1969; Prunescu-Arion, 1989); Lake Niriz, S Iran (Löffler, 1981); All zoogeographical regions (Pejler, 1977); Romania (Rudescu, 1960); Szeged, Hungary; Castellon, Spain; Dor & Eilat, Israel; Japan; Azov Sea; Mediter. estuary, France (Snell & Carrillo, 1984); Tsingtao, China; Japan (Snell & Winkler, 1984); Rostock, Germany (Arndt & Heerkloss, 1989); Lake Hazar, Asiatic Turkey (Tokat, 1976); Bergen, Norway (Korstad, Olsen & Vadstein, 1989a); Trondheim, Norway (Korstad, Vadstein & Olsen, 1989b); Austria & Scotland (Snell, 1989); Afghanistan (Bērziņš, 1961); Minorca, Spain (de Manuel, 1990); In brackish fishponds in C Japan (de Beauchamp, 1963); Ponds of the Koshubey fishfarm (Dagest.) (Sal'nikov & Badmina, 1979); Peridunar ponds Santa Olalla & Dulce, Donâna Nat. Park, Spain (Lopez, 1991); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Rivers in W Kazakhstan, R.F. (Petrova, 1976); Dniester estuary, R.F. (Polishchuk, 1976); Treatment ponds in Astrakhan Province, R.F. (Chuykov, 1979); Aral Sea spawning grounds, R.F. (Jerekeyev & Kazakhbayev, 1972); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); Golden Sea Produce Hatchery, Hunterston, Scotland (Schmid-Araya, 1991); Salinas, Sea of Azov area, R.F. (Snell *et al.*, 1991); Gulf of Finland, G. of Riga, Baltic Sea, Belt Sea, Kattegat, N & S North Sea, Br. Channel & Irish Sea, S & W Ireland (Bērziņš, 1960); Garcines Sud, Camargue; Roubine des Salins de Villeroy, près de Sète; Etang de Lagunage, aux Saintes-Maries-de-la-Mer, France (Pourriot *et al.*, 1984); Camargue, S France (De Ridder, 1960a & 1961); Spanish reservoirs (de Manuel, 1991); River Danube (Enaceanu & Brezeanu, 1970); Garcines Sud, Camargue, France (Pourriot & Rougier, 1979); Black Sea (Rudescu, 1961); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Mickletown lagoons, lower Aire valley, UK (Ruttner-Kolisko, 1979); Brackish pool near Szeged, Hungary (Ruttner-Kolisko, 1972); Several lagoons in E Spain (Serra & Miracle, 1983); Garden ponds in Japan (Sudzuki, 1975); Scandinavian coastal waters (Thane-Fenchel, 1968); All over Spain; Mallorca (Velasco, 1990); Gallocanta Lake, Aragon, NE Spain (Comin *et al.*, 1983); Lowestoft, UK (Scott & Baynes, 1978); Seto Inland Sea, Japan (White & Nagata, 1990); Port Erin, Isle of Man, UK (Howell, 1973); Lake Kita-Gata, Hokuriki district, Japan (Kanetsuna, 1973); Kleiner Kiel, N Germany (Korn, 1972); Cadiz, Spain & Oban, Scotland (Yufera, 1982); Kai Lake, University of Tokyo, Hamana Lake & Okinawa, Japan; Moscow, R.F. (Rumengau *et al.*, 1991); China; Eilat, Israel; Schlei-Fjord, Germany; Palavan-les-flots, France; Moscow, R.F. (Fu *et al.*, 1991); Western substeppe floodplain of Lower Volga (Chuykov & Merkulov, 1986); Terek delta, Astrakhan peninsula, R.F. (Chuykov & Deneskin, 1985); 2 brackish water bodies in Turkey (Emir, 1991); Japanese inland waters (brackish or saline) (Yamamoto, 1960a); Quinghai Lake, China-Mongolia (Williams, 1991); Brundall, Norfolk Broads, UK (Leah *et al.*, 1980); Near Debrecen, Hungary (Dévay, 1972); Lower Danube in Romania (Enaceanu, 1964); Japan, France, Israel-Dor (Snell, 1987); Garcines Sud (Camargue) and Sète lagoon, Fr. (Pourriot & Snell, 1983); Barther Bodden, S Baltic, Germ. (Heerkloss *et al.*, 1984); ? L. Tüzer See, Neubrandenburg, Germany (Doll, 1984); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Ymuiden Harbour; Buiten Y; Amsterdam; Zuiderzee & Ysselmeer; R. Tjummer & Harlingervaart; Van Hunenplak, Terschelling; Veerse Meer, NL (Dresscher, 1976); Etang de Messanges, SW France (De Ridder, 1967b); Brackish waters at Mallorca, Spain (De Ridder, 1967c); Irrigation ditches near Pylos, Greece (De Ridder, 1967d); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); 4 localities in Belgium (De Ridder, 1986); Channel Nieuwpoort-Duinkerke, B./Fr. (De Maeseneer, 1979); Brackish waters near Bruges, Belgium (De Ridder & Verheye, 1980); R. Elbe estuary, Germany (Schulz, 1961); Shores of the white Sea, R.F. (Ghilarov, 1967); Roscoff, Atlantic coast of Brittany, France (D'Hondt, 1970); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Anatolia, Turkey (Segers *et al.*, 1992); Lake Erken, Sweden (Nauwerck, 1963); Several localities in Iran; Lacken near L. Neusiedl, Austria; L. Van & L. Tso Kar, Anatolia, Turkey (Ruttner-Kolisko, 1971); Dor fish ponds, 40 km S of Haifa, Israel (Lubzens *et al.*, 1990)

- Nearctic region: Canada (Chengalath, 1977); Boulder County, Colorado; Los Angeles, California; Mc Cay Bay, Florida, USA (Epp & Lewis, 1984); La Jolla, California & La Tampa, Fa (King & Miracle, 1980); Gaynor Lake, Boulder Co, Colorado, USA (Epp & Lewis, 1980); Big Soda Lake, N & C Nevada, USA (Starkweather, 1988); Big Quill, Saskatchewan, Canada (Hammer *et al.*, 1975); Mc Kay Bay near Tampa, Fa (Snell, Bieberich & Fürst, 1983); Brackish Westshore pond, Tampa, Fa (Snell, Burke & Messur, 1983); Mc Kay Bay & Westshore pond, Fa; Gaynor pond & lake, Colorado; Dune pond, California; Big Soda Lake, Nevada, USA (Snell & Carrillo, 1984); All foregoing + Alafia, Tampa Bay, Fa (Snell & Winkler, 1984); Soda Lake, Nevada, USA (Zhao & King, 1984); Colorado (Snell, 1989; Turner, 1988); Mc Kay Bay,

- Florida (Koste, 1981); Kalamazoo river, Michigan, USA (Prins & Davis, 1966); Pyramid Lake, Nevada, USA (Galat *et al.*, 1981); Borrow-pit ponds, N Illinois, USA (Lipsey & Malcom, 1981); Experimental ponds, C Florida (Fry & Osborne, 1980); Tampa Bay, Florida (Snell, 1987); Chesapeake Bay, Potomac river estuary, USA (Heimbokel *et al.*, 1988); Everglades Nat. Park, Florida, USA (Nogrady, 1983); Salton Sea, Southern California, USA (Capuzzo, 1979); L. Winnemucca, California; Soap L. & Mono L, N America; Muskiki, Canada (Ruttner-Kolisko, 1971); Salton Lake, USA. (Theilacker & Mc Master, 1971); Rhodes r., near Annapolis, Maryland, USA (Badalamente & Vernick, 1973); Exper. ponds near Bakersfield, kern Co, California (Hurlbert *et al.*, 1972); Rhodes river estuary, Maryland, USA (Dolan & Gallegos, 1992); Hawai, USA (Rumengau *et al.*, 1991); USA: Hawaii, California, Florida (Fu *et al.*, 1991)
- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983); Sri Lanka (Fernando, 1980a); Singapore (Karunakaran & Johnson, 1978); Rajasthan, India (Nayar, 1968); Sri Lanka: Jaffna jetty pond, Karainagar. Also known from India. (Chengalath, Fernando & Koste, 1974); Fishpond in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Blairideverkop pond, Karnataka State, India (Patil & Gouder, 1985); Panjab State, NW India (Sharma 1976 & 1980); West Bengal, NE India (Sharma, 1979a); Dar Lake, Kashmir Himalayan L., India (Vass & Zutshi, 1983); Philippines, Thailand, Singapore, Malaysia, Indonesia (Fu *et al.*, 1991)
- Australian region: Salt lake, Sutto, New Zealand (Bayly, 1967); SW Aust. (Koste, Shiel & Brock, 1983); West Twin Lake, Red Rock Tarn & Lake Werowrap, saline crater lakes, Victoria, Aust. (Green, 1981); Qld & Vic, Aust. (Shiel & Koste, 1979); Saline lakes all over Aust. (Shiel, 1983); Polytherm. Cosmopolitan in saline/brackish waters, also with high soda concentrations (Koste & Shiel, 1987b); L. Purrumbete & L. Bullenmerrie, Aust. (Timms, 1981); Christchurch, New Zealand (Russell, 1960); Lakes Werowrap & Corangamite, Aust. (Ruttner-Kolisko, 1971); Saline crater lakes West Twin, Red Rock Tarn & Werowrap, Aust. (Green, 1986); Lakes Corangamite, Coradgill & Kariah, Vic, S Aust. (Sudzuki, 1967); Lakes of Central South Australia (Serruya & Pollinger, 1984)
- Neotropical region: River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1985); Eutrophic water Santa Fé, Argentina (José de Paggi, 1986b); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Patagonian tableland, S Argentina (Paggi, 1981); Argentina (Modenutti & Claps, 1988); Brazil, Venezuela, Colombia, Argentina, Bolivia (Koste & José de Paggi, 1982); Provinces in NW Argentina (José de Paggi, 1989); Lake Coca-Cola, near Rio de Janeiro, Brazil (Turner, 1990); Chilean lakes (Schmid-Araya, 1991); Lake Xolotlan, Nicaragua (Cisneros & Mangas, 1991); La Habana, Cuba (De la Cruz Millares, 1974); Caribbean part of the Neotropis (De Ridder, 1977); Argentine Patagonia (Kuczynski, 1987b); Aruba, Bonaire, Curaçao, Costa Rica, Dominican Republic, Haiti, Nicaragua (Collado *et al.*, 1984); Laguna Iloya, Nicaragua (De Ridder, 1966b); Lake Valencia, Venezuela (Saunders & Lewis, 1988); Prov. Buenos Aires, Argentina; Brazil; Bolivia (Olivier, 1965); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); L. Xolotlan, L. Masaya, L. Xiloa & L. Monte Galan, Nicaragua (Moreno, 1992)
- Brachionus plicatilis*** O.F. Müller, f. *asplanchnoides* Charin, 1947
- Palaeartic region: E Eur. lowland (Bērziņš, 1978); Latorica, E Slovakia lowland, CSR (Terek, 1990b)
- Brachionus plicatilis*** O.F. Müller, f. *colongulaciensis* Koste & Shiel, 1980
- Australian region: Lake Colongulac, Aust. (Koste & Shiel, 1980c & 1987b); Australia (Shiel, 1981); Australian endemic. Only L. Colongulac (Shiel, 1983); Saline lakes in Vic, Aust. & Tasmania (Koste & Shiel, 1978b)
- Brachionus plicatilis*** O.F. Müller, f. *hepatotomus* Gosse, 1851
- Oriental region: Taiwan, Malaysia, Singapore, Sri Lanka, India (Sudzuki, 1989)
- Brachionus plicatilis*** O.F. Müller, f. *longicornis* Fadeew, 1925
- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981)
- Brachionus plicatilis*** O.F. Müller, f. *orientalis* Rodewald, 1937
- Palaeartic region: Pontic province of Europe (Bērziņš, 1978)
- Brachionus plicatilis*** O.F. Müller, f. *rotundiformis* Tschugunoff, 1921
- Palaeartic region: Hungarian plain, Pontic province, E & C Eur. lowland (Bērziņš, 1978); Black Sea, Romania (Rudescu, 1961); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Southwest island of Japan (as *Br. rotundiformis estoniana* & *Br. rotundiformis murrayi*) (Sudzuki *et al.*, 1992); Western substeppe floodplain of Lower Volga (Chuykov & Merkulov, 1986)
- Nearctic region: Hawaii (Hagiwara *et al.*, 1989)
- Oriental region: Malaysia & Singapore (Sudzuki, 1989); Thailand (Boonsom, 1984b)
- Brachionus plicatilis*** O.F. Müller, f. *spatiosus* Rousselet, 1912
- Palaeartic region: E Eur. lowland (Bērziņš, 1978)
- Brachionus polyacanthus*** Ehrenberg, 1834
- Palaeartic region: Spain: Valencia & Zamora (Velasco, 1990)

- Nearctic region: Crater Lake, Arizona (Green, 1986)

Brachionus postcurvatus Kuczynski, 1991

- Neotropical region: Reconquista river, Argentina (Kuczynski, 1991)

Brachionus pseudonilsoni Sudzuki, 1992

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1992; Sudzuki *et al.*, 1992)

Brachionus pteridinoides Rousselet, 1913

- Palaearctic region: Palaearctic, Nearctic & Neotropical regions (Pejler, 1977); N & S America and Europe (Dumont, 1983); Italy (Bērziņš, 1978)

- Nearctic region: NW Canada (Chengalath & Koste, 1987); Colorado, USA (Turner, 1988); Canada (Chengalath, 1977); Mexico & USA (Olivier, 1965)

- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983, Sudzuki, 1989); Naini Lake, Delhi, India (George, 1966); River Yamuna, India (Rai, 1974); West Bengal, NE India (Sharma, 1979a)

- Neotropical region: Bolivia & Argentina (Koste & José de Paggi, 1982); Prov. San Luis & Buenos Aires, Argentina (José de Paggi, 1990); Prov. Buenos Aires & San Luis, Argentina; Bolivia (Olivier, 1965); Laguna Gómez, NW of Buenos Aires prov., Argentina (Boltovskoi *et al.*, 1984)

Brachionus quadridentatus Hermann, 1783

- Palaearctic region: Romania (Rudescu, 1960); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Nat. Res. Neeruti Lakes, NE Estonia (Mäemets A. & A., *s.d.*); Karstic Lake Percile, Latium, Italy (Margaritora *et al.*, 1981); Lakes in C Sweden (Pejler, 1965); In all zoogeographical regions (Pejler, 1977); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); River Guadalquivir, S Spain (Guisande & Toja, 1988); Near Hamburg, Germany (Berghahn, 1979); Middle course of r. Po, Italy (Ferrari *et al.*, 1986); River Ybbarpsån, Sweden (Bērziņš, 1979); Banyoles Lake, NE Spain (Miracle, 1975); Afghanistan (Bērziņš, 1961); Lagoon "La Ricarda" near Barcelona, Spain (Miracle & Guiset, 1977); Rock pools in S Finland (Björklund, 1972a); Finland (Eriksen, 1969); River Loire, France (Lair *et al.*, 1978; Lair, 1980); Lagoon La Ricarda, near Barcelona; Lagoon of Cullera, near Valencia; La Albufera de Valencia (Miracle *et al.*, 1988); Steppic waters, Spain (Miracle, 1982); Brackish waters along Sp. Meditt. coast (Miracle *et al.*, 1987); Lake Numasawa, Japan (Sudzuki *et al.*, 1983); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Lake Cullera near Valencia, Spain (Miracle & Vicente, 1983); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983); Slovenia, ex-Yugoslavia (Markic, 1983); Barther Bodden, S Baltic Sea, Germany (Arndt *et al.*, 1981, 1984a & 1984b); Canal de Séclin, Nord, France (Angeli, 1972); Impoundment Neunzehnhain, Germany (Althaus, 1972); Laxarvatn, E of Blönduós, Iceland (De Ridder, 1970); N of Iceland (De Ridder, 1972); Spanish reservoirs (de Manuel, 1991); Lower Volga, R.F. (Chuykov & Merkulov, 1986); Terek delta, Astrakhan peninsula, R.F. (Chuykov & Deneskin, 1985); Soviet section of r. Danube (Parchuk, 1985); Barabinskaya power plant, near Novosibirsk, R.F. (Volgin *et al.*, 1982); 3 water bodies in Turkey (Emir, 1991); Lake Aydat, Massif Central, France (Lair, 1978); Acid ponds in Lower Austria (Wawrik, 1972); Japanese inland waters (Yamamoto, 1960a); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960); Serbian section of r. Danube (Zivkovic, 1968); Lac Léman, Fr./CH (Balvay & Laurent, 1981); Darss-Zingst estuary, S Baltic Sea (Heerkloss *et al.*, 1991); Brundall, Norfolk Broads, UK (Leah *et al.*, 1980); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lower Danube in Romania (Enaceanu, 1964); Lower Elbe in Germany (Grimm, 1968); R. Danube from Austria to Romania (Wawrik, 1968); Barther Bodden, Baltic Sea brackish inlet (Heerkloss *et al.*, 1984); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Balearic archipelago, Spain (de Manuel *et al.*, 1992); All over the Netherlands (Dresscher, 1976); Etang Blanc, SW France (De Ridder, 1967b); Saltmarsh of Puerto de Pollensa, Majorca (De Ridder, 1967c); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); All over Belgium (De Ridder, 1986); Brackish waters near Bruges, Belgium (De Ridder & Verheye, 1980); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Canal Leeds-Liverpool, UK (Galliford, 1960b); Lake Balaton, Hungary (Zankai, 1968); Luka nod Olzon, near Ostrava, Silesia, CSR (Sladeczek, 1969); Latorica, E Slovakia lowland, CRS (Terek, 1990a); Canals in Hran area, CSR (Terek, 1990c); Lake Donk, Overmere, Belgium (Coussement & De Henau, 1975; Dumont, 1968b; Coussement, 1976); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Boatracing canal Gent, Belgium (Vanderbeken, 1977; Coussement, 1982); R. Meuse Liégeoise, Belgium (Baiverlin, 1984); Koragöl, near Izmir, Turkey (Ustaoglu, 1986); L.Akgöl (Selçuk-Izmir), Turkey (Ustaoglu & Balik, 1987); L. Gebekinsé (Izmir), Turkey (Ustaoglu & Balik, 1990a); Camargue, S France (De Ridder, 1960a & 1961); Brackish fishponds in C Japan (de Beauchamp, 1963); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Volga r. & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Rivers in Soviet Karelia, R.F. (Filimonova, 1976); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Rivers in W Kazakhstan, R.F. (Petrova, 1976); Dniester estuary, R.F. (Polishchuk, 1976); Aral

sea spawning grounds (Jerekeyev & Kazakhbayev, 1972); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); "Grote vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1986); "Kleine vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1989); Moat fort Merksem (Antwerpen, B.) (De Smet *et al.*, 1987); Large rivers, tributary to Kiev reservoir, R.F. (Polishchuk, 1987); Groszer Binnensee, Baltic coast, Germany (Lampert & Rothhaupt, 1991); Mare los Hinojos, Marismas, Spain (De Ridder, 1962b); Forest pond in Lembeek (Brabant, Belgium) (Van Elslande, 1975); Lagoon Sacca del Canarin, Po r. delta, Italy (Ferrari *et al.*, 1985); Sambre river, Belgium (Dumont *et al.*, 1975); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Lake Chambedaze, Puy-de-Dôme, France (Persoone *et al.*, 1968); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); R. Moldova, tributary to the Danube, Rom. (Prunescu-Arion, 1968); Lake Obsysjön, near Stockholm, Sweden (Pejler, 1961); Lagoon Bogevisken, C Sweden (Pejler, 1964); Pool in Fontainebleau forest, Ile-de-France, Fr. (Pourriot, 1976); Black Sea (Rudescu, 1961); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Bulgarian bank of r. Danube (Naidenow, 1963); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1976); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parzew area peat bogs, Poland (Radwan, 1974); Hamburg area, Germany (Rühmann, 1961 & 1965a); München area, Germany (Rauh, 1963); Water sheets in the Hamburg area, Germany (Rühmann, 1964); R. Alster in Hamburg, Germany (Rühmann, 1967); Middle course of r. Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Ponds in the Paris suburb, France (Pourriot, 1965); Fens in Genk, Belgium (Schepens, 1960); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Fukushima Prefecture, Japan (Sudzuki, 1982); Periphitic biota in sewage & parks waters, Japan (Sudzuki, 1981); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of r. Danube (Zivkovic, 1987); Kaifeng, China (Wulfert, 1968); All over Spain; Mallorca (Velasco, 1990); Ponds near München, Germany (Buchner & Mulzer, 1961); Pond in Birkeneck, Oberbayern, Germany (Rauh, 1963); Lake Biwa-ko, Japan (Yamamoto, 1960b); Rybnik dam reservoir, Poland (Krzanowski, 1979); Waters near r. Brodog, NE Hungary (Dévai *et al.*, 1972/1973); Lake in Hokuriki district, Japan (Kanetsuna, 1973); Lake Meeuwenven, near Nijmegen, NL (Geelen, 1969); River Klyas'ma, R.F. (Bogoslawski, 1961); Heiluntsian province, China (Bogoslawski, 1962); Impoundment "Eisernes Tor", Danube r., Rom. (Brezeanu & Peten, 1973); Albufera de Valencia, Spain (Oltra & Miracle, 1984); "Altes Land" near Hamburg, Germany (Heckman, 1986); All continents (Dumont, 1983); All over the Netherlands (Dresscher, 1976); Asiatic Turkey (Dumont & De Ridder, 1987); District Ostrava, CSR (Dvorakova, 1960b); C Finland (Eloranta, 1982b); Illmitzer Zicklacke, Burgenland, Austria (Pescheck, 1961); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Bamberg-Höchststadt area, Germany (Halbach, 1973); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Lake Biwa, Japan (Yamamoto, 1967 & 1968; Hillbricht-Ilkowska, 1983a & 1983b); Alkal. Lake Péteri-See, Hungary (Kertesz, 1960); Vogelmeer near Ymuiden & Breede Water, Voorne, NL (Leentvaar, 1963); Baisse saleé, Camargue, S France (Aguesse, 1960); Lake Hazar, Asiatic Turkey (Tokat, 1976); C & S Sweden (Pejler & Bērziņš, 1989); Barther Bodden, S Baltic Sea, Germany (Vietinghoff *et al.*, 1984); Minorca, Spain (de Manuel, 1990); Darnsee near Epe, NW Germany (Koste, 1962); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lac d' Aydat, Massif Central, France (Oulad Ali *et al.*, 1990); Inundation area of r. Danube, Romania (Dorobantu, 1964); River Grabia basin, Poland (Pawlowski, 1970); Greifswalder Bodden, NE Germany (Spittler, 1969); Füllöpzallas, Formos & L. Peteri, Hungary; Lacken near L. Neusiedl, Österreich; Mitteldeutschland; Tibet (Ruttner-Kolisko, 1971)

- Nearctic region: L. George & Cottonwood pond, Colorado, USA (Herrmann, 1977); Colorado (Turner, 1988); Milwaukee Harbour, USA (Stemberger, 1974); Illinois & Kentucky, USA (Bērziņš, 1984); Canada (Chengalath, 1977); Ontario, Canada (Chengalath & Fernando, 1973; Chengalath *et al.*, 1971); Near New Haven, Connecticut, USA (Snell, 1989; Gilbert, 1963b); Kingston, Ontario, Canada (Nogrady, 1989); Buzzard Roost L., near Folkston, Georgia, USA (Schoenberg, 1990); Old Woman Creek, Ohio, USA (Havens, 1991); Kalamazoo river, Michigan, USA (Prins & Davis, 1966); Northern Michigan inland lakes (Stemberger, 1990); Pyramid Lake, Nevada, USA (Galat *et al.*, 1981); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Lakes at Santee, California (Nogrady, 1982); Laurentian Great Lakes (Stemberger, 1979); Experimental ponds, C Florida, USA (Fry & Osborne, 1980); Bayou de Siard, near Monroe, Louisiana (Gallagher, 1965); Exp. ponds near Bakersfield, Kern Co, California (Hurlbert *et al.*, 1972); Everglades Nat. Park, Fa & San Francisco (Nogrady, 1983); Massey Lake, near Beaumont, Texas, USA (Marsh *et al.*, 1978)

- Oriental region: Rajasthan, India (Nayar, 1968); Java (Green & Oey, 1974); Widely distributed in India (Sharma & Michael, 1980); Tank near Nagpur, C India (Arora, 1962b & 1966c); River Yamuna, India (Novotna-Dvorakova, 1963); Lake Parakrama, Sri Lanka (Fernando, 1984); Philippines (Mamaril &

Fernando, 1978); Sri Lanka (Fernando, 1969 & 1980a); Shallow ponds in Delhi, India (George, 1961); Singapore & Malaysia (Karunkaran & Johnson, 1978); Malaysia (Ueno, 1966); Kalimantan (Borneo), Indonesia (Koste, 1988); Rice fields of North Kriau, Perak, Malaysia (Ali, 1990); Sri-Lanka: very common in weedy ponds and rice fields (Chengalath, Fernando & Koste 1973); Naini Lake, Indranagar Tank, Stocking Tank & Nursery Tank, Delhi, India (George, 1966); Kashmir valley & high mountains of Kashmir Himalaya (Zutshi *et al.*, 1980); High altitude kashmir lakes (Zutshi *et al.*, 1972); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); Andhra Pradesh, India (Dhanapati, 1974b); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Panjab State, NW India (Sharma, 1976 & 1980); West Bengal, NE India (Sharma, 1979a); Rice Paddy in Vientiane, Laos (Heckman, 1974); Orissa, E India (Sharma, 1978c); 2 sewage channels of Gwalior, India (Saksena & Kulkarni, 1986); Bangkok, Thailand (De Ridder, 1971); Parakrama Samudra, Sri Lanka (Fernando & Rajapakasa, 1983); 2 Kumaun Himalayan lakes (UP), India (Sharma & Pant, 1985); Jammu (J & K), India (Jyoti & Sehgal, 1980); Lake Surinsar, Jammu, India (Jyoti & Sehgal, 1979); Kerala, S India (Nayar & Nair, 1969); S India (Naidu, 1967); Lake Manguao, Palawan, The Philippines (Davis & Green, 1990); Dar Lake, Kashmir Himalayan Lake, India (Vass & Zutshi, 1983); Nimeta water works, near Baroda, India (Wulfert, 1966); Lake Nilnag, India (Serruya & Pollingher, 1984)

- Australian region: Darling r. & Murray r., SE Australia (Koste & Shiel, 1980); Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); Qld, Vic & W Aust. (Shiel & Koste, 1979); Australia (Shiel, 1981); Lakes and billabongs all over Aust. (Shiel, 1983); Pancontinental in Aust. Tasmania (Koste & Shiel, 1987b); Tasmania (Shiel, Koste & Tan, 1989); Alligator river area, NT, Aust. (nom. form + undescribed, endemic dwarf form) (Tait, Shiel & Koste, 1984); Billabongs of the Murray-Darling system, Aust. (Shiel, 1986); Slightly saline L. Bullenmerri, Aust. (Timms, 1981); New Zealand (Russell, 1960); Bromfield Swamp, Tropical Queensland, Aust (Green, 1981)

- Neotropical region: L. Jacateringa, Amazonia, Brazil (Serruya & Pollingher, 1984); Araucarian lakes, W of the Andes, Chile (Thomasson, 1963b); Surinam (Leentvaar, 1975); River Parana, Argentina (Paggi & José Paggi, 1974; José de Paggi, 1978a & 1985); River Santa Fé, Argentina (José de Paggi, 1976b); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Argentina (Modenutti & Claps, 1988); Ecuador: Oriente (Koste & Böttger, 1989); Fox's pool, Rio Snia Missu, Mato Grosso, C Brazil (Green, 1972); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Arroyo Rodriguez, prov. de Buenos Aires, Arg. (Modenutti, 1987); Provinces in NW Argentina (José de Paggi, 1989); Lago Paroni, Brazil (Koste, 1974a); Amazonia, Brazil. Cosmopolitan (Koste, 1972f); Lago de Valencia, Venezuela (De Infante, 1980); L. Xolotlan & L. Masaya, Nicaragua (Moreno *et al.*, 1992); Oriente & Sierra, Ecuador (Koste & Böttger, 1992); Argentina, Brazil, Paraguay, Venezuela, Chile, Surinam, Peru, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Near Panguana, Peru (Koste, 1988b); Near Concepcion, Paraguay (Koste, 1986b); Chilean lakes (Schmid-Araya, 1991); Prov. Mendoza, San Juan, La Rioja, Salto, Tucuman, Cordoba, Santiago del Estero, Chaco, Corriente, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Caribbean part of the Neotropis (De Ridder, 1977); Aruba, Costa Rica, Cuba (Collado *et al.*, 1984); Reconquista river, Argentina (Kuczynski, 1991); Brokopondo Lake, Surinam (Leentvaar, 1979); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/80); Prov. Buenos Aires & Chibut, Argentina; Brazil; Bolivia; Paraguay (Olivier, 1965); Amazonia, Brazil (Thomasson, 1971); Mato Grosso, Brazil (Turner & Da Silva, 1992); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992)

- Antarctic region: Antarctica & Subantarctica (José de Paggi & Koste, 1984); Anatarctic meltwater pools (Thomas, 1965); Clark peninsula (Thomas, 1972)

Brachionus quadridentatus melhemi Barrois & Daday, 1894

- Palaearctic region: Eeklo, Belgium (De Maeseener, 1979); C Finland (Eloranta, 1982b); River Danube (Enaceanu & Brezeanu, 1970); Delta of river Danube, Romania (Prunescu-Arion, 1989); Romania (Rudescu, 1960); Alps, C Eur. mountains, Hungarian plain, Pontic prov., C & E Eur. plains, Baltic prov., NW Russian taiga (Bērziņš, 1978); Kiev reservoir, R.F (Polishchuk, 1987); Japanese inland waters (Yamamoto, 1960a); Southwestern islands of Japan (Sudzuki *et al.*, 1992); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); L. Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Spain: Cuenca (Velasco, 1990)

- Oriental region: NE Thailand (Heckman, 1979); Singapore (Karunakaran & Johnson, 1978); Sri Lanka (Mendis & Fernando, 1962); Taiwan, Thailand, Malaysia, Singapore, Indonesia, Sri Lanka, India, Philippines (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Singapore & Taiwan (Sudzuki, 1991); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990)

- Australian region: Alligator rivers region, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984);

Tasmania (Koste & Shiel, 1987); Billabongs r. Murray, SE Aust. (Shiel & Koste, 1983); Vic, Aust. (Shiel & Koste, 1979); Lakes and billabongs in E Aust. (Shiel, 1983); Pantropical & pansubtropical. NSW, NT, Qld, Vic; Tasmania (Koste & Shiel, 1987b); E Aust. (Koste & Shiel, 1980b); NW Aust.: Magela Creek area (Koste, 1981b)

- Neotropical region: Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971; Koste, 1972f); Paraguay, Brazil, Honduras (Koste & José de Paggi, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Reconquista river, Argentina (Kuczynski, 1991b); Mato Grosso, Brazil (Turner & Da Silva, 1992); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984)

Brachionus quadridentatus mirabilis Daday, 1897

- Nearctic region: Nearctic, Ethiopian, Indian & Neotropical regions (Pejler, 1977); N & S America, Asia, Africa (Dumont, 1983)

- Oriental region: Singapore (Karunakaran & Johnson, 1978); India (Sharma & Michael, 1980; Sharma, 1983); Thailand, Malaysia, Singapore, Indonesia, India (Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981); West Bengal, NE India (Sharma, 1979a); NE Thailand (Heckman, 1979)

- Australian region: Pantropical. New Guinea, Thailand. Possibly in NT (Koste & Shiel, 1987b)

- Neotropical region: Amazonia, Brazil (Thomasson, 1971); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Oriente & Costa, Ecuador (Koste & Böttger, 1992); Rio Reconquista, prov. Buenos Aires, Argent. (Kuczynski, 1991b); Parana Medio r. environments, Argentina (José de Paggi, 1982); Antilles françaises (Pourriot, 1975); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/80); Pond in tropical rain forest, Peru (Schlüter, 1984); Surinam (Leentvaar, 1975); Ecuador: Oriente (Koste & Böttger, 1989); Broa reservoir, Sao Paulo State, Brazil (Matsumura-Tundisi & Tundisi, 1976); Amazonia, Brazil; Paraguay; Panama; New Guinea; also Florida, USA & L. Nyassa, Africa (Koste, 1972f); Lago Paroni, Brazil (Koste, 1974a); Near Concepcion, Paraguay (Koste, 1988c); Paraguay, Brazil, Antillas, Bolivia, Venezuela, Argentina, Surinam, Panama (Koste & José de Paggi, 1982); Near Panguana, Peru (Koste, 1986b); Orinoco river basin, Venezuela (Vasquez, 1984a); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Prov. Chaco & Santa Fé, Argentina (José de Paggi, 1990); Caribbean islands (Collado *et al.*, 1984)

Brachionus quadridentatus Hermann, f. *ancylognathus* Schmarda, 1859

- Palaeartic region: Alkal. Péteri-See, Hungary (Kertesz, 1960); Lake Balaton, Hungary (Zankai, 1968); Japanese inland waters, Japan (Yamamoto, 1960a); River Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary, Germany (Schulz, 1961); Hamburg area, Germany (Rühmann, 1961); Hamburg Harbour, Germany (Rühmann, 1962); River Alster in Hamburg, Germ. (Rühmann, 1967); Lake of Hokuriki district, Japan (Kanetsuna, 1973); Serbian section of r. Danube (Zivkovic, 1987); Romania (Rudescu, 1960); Inundation area of r. Danube delta, Rom. (Dorobantu, 1964); Kiev reservoir, R.F. (Polishchuk, 1987); C Eur. mountains, Carpathes, Pontic province (Bērziņš, 1978); Soviet section of r. Danube (Parchuk, 1985); Southwest islands of Japan (Sudzuki *et al.*, 1992); Spain: Madrid and Valencia (Velasco, 1990)

- Oriental region: Malacca, peninsula Malacca, SE Asia (De Maeseneer, 1976); Malaysia, Singapore, Indonesia, Sri Lanka, India (Sudzuki, 1976); Kalimantan (Borneo), Indonesia (Koste, 1988); Singapore (Sudzuki, 1991); W & E Malaysia & Singapore (Fernando & Zankai, 1981)

- Australian region: Pantropical & Pansubtropical. Vic., Aust. & Tasm. (Koste & Shiel, 1987b); Vic. Aust. (Shiel & Koste, 1985); S Tasmania & Vic, Aust. (Koste, Shiel & Tan, 1988)

- Neotropical region: Ecuador (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Province Buenos Aires, Argentina (José de Paggi, 1990); Argentine Patagonia (Kuczynski, 1987b); Reconquista river, Argentina (Kuczynski, 19891b)

Brachionus quadridentatus Hermann, f. *brevispinus* Ehrenberg, 1832

- Palaeartic region: Anatolia, Turkey (Segers *et al.*, 1992); Heiluntian province, China (Bogoslowski, 1962); Afghanistan (Bērziņš, 1961); Lake Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Asiatic Turkey (Dumont & De Ridder, 1987); C & S Sweden (Pejler & Bērziņš, 1989); Alkal. Péteri-See, Hungary (Kertesz, 1960); Delta of r. Danube (Prunescu-Arion, 1989); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Bog pond near Budapest, Hungary (Nogrady, 1962); River Elbe estuary, Germany (Schulz, 1961); Aral Sea spawning grounds, R.F. (Jerekeyev & Kazakhbayev, 1972); Kiev reservoir, R.F. (Polishchuk, 1987); Almost all over Europe (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); Gulf of Finland, ? North Sea, Belt Sea, British Channel, Irish Sea (Bērziņš, 1960); Spanish reservoirs (de Manuel, 1991); Soviet section of r. Danube (Parchuk, 1985); Lakes of the Black Sea shore (Godeanu, 1970b); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki *et al.*, 1992); In periphyton of mosses and *Myriophyllum* in the Danube & in some brooks of the Alps (Austria) (Donner, 1964); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of river Danube at the German-Austrian border (Donner, 1972); Lower Danube in Romania (Enaceanu, 1964); Lower Elbe in Germany (Grimm, 1968); Lake Neusiedlersee, Austria (Donner, 1979);

Lake of Hokuriki district, Japan (Kanetsuna, 1973); Spain: Madrid (Velasco, 1990); R. Buiten Y; city moats of A'dam; Gerritsflesch, Kootwijk; R. Yssel; channel Harlingse vaart & city moats of Sneek, Friesland (Dresscher, 1976); Lakes N of Bucarest, Romania (Godeanu, 1969b); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Black Sea (Rudescu, 1961); Ponds of Oltina, SE of Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Hamburg area, Germany (Rühmann, 1961); Serbian section of r. Danube (Zivkovic, 1987); Gravel pits along r. Meuse, NL (Wibaut-Isebree Moens, 1964)

- Nearctic region: Illinois, USA (Bērziņš, 1984); Lakes at Santee, California (Nogrady, 1982); Colorado (Turner, 1988)

- Oriental region: India (Sharma, 1983); Singapore (Karunakaran & Johnson, 1978); Taiwan, Thailand, Malaysia, Singapore, Indonesia, Sri Lanka, India, Philippines (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Singapore, Taiwan. Cosmopolitan (Sudzuki, 1991); W & E Malaysia & Singapore (Fernando & Zankai, 1981)

- Australian region: Vic, Aust. (Koste & Shiel, 1980c); Lake Boort, Vic, Aust. (Shiel, 1983); Vic. Cosmopolitan in fresh and brackish waters (Koste & Shiel, 1987b)

- Neotropical region: Sierra, Ecuador (Koste & Böttger, 1992); Amazonia, Brazil (Koste, 1972f); Paraguay, Brazil, Peru, Argentina (Koste & José de Paggi, 1982); Lake Xolotlan, Nicaragua (Cisneros & Mangas, 1991); Prov. Chubut, Rio Negro & Buenos Aires, Arg. (José de Paggi, 1990); Argentine Patagonia (Kuczynski, 1987b); Reconquista river, Argentina (Kuczynski, 1991)

***Brachionus quadridentatus* Hermann, f. *cluniorbicularis* Skorikov, 1894**

- Palaearctic region: Cherepet' power plant, S of Moscow, R.F. (Kuznetsova, 1982); River Svatka, CSR (Kubicek, 1968); Japanese inland waters (Yamamoto, 1960a); Southwest islands of Japan (Sudzuki *et al.*, 1992); R. Salzach & its tributaries, Austria (Donner, 1970); Lower Elbe, Germany (Grimm, 1968); Hamburg harbour, Germany (Tent, 1981); Shores of dammed & flowing stretches of r. Danube, at the German-Austrian border (Donner, 1972); In Periphyton of mosses & *Myriophyllum* in the Danube & in some brooks of the Alps, Austria (Donner, 1964); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); City moats of Sneek (Fr.) & surroundings; lakes Kagerplassen, NL (Dresscher, 1976); Oostduinkerke, Belgium (De Ridder, 1986); Channel Nieuwpoort-Duinkerke, B./Fr. (De Maeseneer, 1979); R. Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary, Germany (Schulz, 1961); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lakes N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Lower course of r. Loire, France (Champ, 1974); Anatolia, Turkey (Segers *et al.*, 1992); Bog pond near Budapest, Hungary (Nogrady, 1962); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Hamburg area, Germany (Rühmann, 1961); R. Alster in Hamburg, Germany (Rühmann, 1967); Serbian section of r. Danube (Zivkovic, 1987); Spain: Madrid (Velasco, 1990); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983; Prunescu-Arion, 1984); Asiatic Turkey (Dumont & De Ridder, 1987); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Romania (Rudescu, 1960); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Soviet section of r. Danube (Parchuk, 1985); R. Elbe near Hamburg (Caspers & Schulz, 1964); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); C Eur. mountains, Carpathes, Hungarian plain, Pontic prov., C & E Eur. plains, Caspian area, Asia Minor (Bērziņš, 1978); Kiev reservoir, R.F. (Polishchuk, 1987)

- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983); Malacca, peninsula of Malacca, SE Asia (De Maeseneer, 1976); Singapore (Karunakaran & Johnson, 1978); Taiwan (Sudzuki, 1988); Taiwan, Malaysia, Singapore, Sri Lanka, India (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); W & E Malaysia & Singapore (Fernando & Zankai, 1981); R. Yamuna, India (Rai, 1974); West Bengal, NE India (Sharma, 1979)

- Australian region: Billabongs at Wodonga, Vic, Aust. (Shiel, 1983); Vic, Aust. (Koste & Shiel, 1980c); Qld & Vic. Cosmopolitan in eutrophic fresh and brackish waters (Koste & Shiel, 1987b)

- Neotropical region: Peru, Argentina, Antillas (Koste & José de Paggi, 1982); Prov. Rio Negro, Argentina (José de Paggi, 1990); Reconquista river, Argentina (Kuczynski, 1991); Antilles françaises (Pourriot, 1975); Sierra, Ecuador (Koste & Böttger, 1992)

***Brachionus quadridentatus* Hermann, f. *hyphalmyros* Tschugunoff, 1921**

- Palaearctic region: Romania (Rudescu, 1960); Black Sea (Rudescu, 1961); Pontic province, E Eur. plains, Caspian area (Bērziņš, 1978)

***Brachionus quadridentatus* Hermann, f. *longispinosus* Koeppel, 1940**

- Palaearctic region: C Eur. mountains (Bērziņš, 1978)

***Brachionus quadridentatus* Hermann, f. *minor* Koste & Shiel, 1983**

- Australian region: SW Aust. (Koste, Shiel & Brock, 1983); NT & SW Aust. (Shiel & Koste, 1985); NT & W Aust. (Koste & Shiel, 1987c)

- Neotropical region: Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); S America; also

Africa (Koste & Shiel, 1987b)

Brachionus quadridentatus Hermann, f. *rectangularis* Lucks, 1912

- Palaeartic region: R. Elbe estuary, Germany (Schulz, 1961); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Pelagic zone of Leczna-Wlodawa Lakes, Poland (Radwan, 1975); Baltic province of Europe (Bērziņš, 1978)

Brachionus quadridentatus Hermann, f. *rhenanus* Lauterborn, 1983

- Palaeartic region: Japanese inland waters (Yamamoto, 1960a); Lake Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Impoundment "Eisernes Tor" Danube, Rom. (Brezeanu & Peten, 1973); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Inundation area of Danube delta, Romania (Dorobantu, 1964); Kiev reservoir, R.F. (Polishchuk, 1987); C Eur. mountains, Carpathes, Hungarian plain, Pontic province, C & E Eur. plains, Baltic prov., Caspian area (Bērziņš, 1978); Soviet section of r. Danube (Parchuk, 1985); Spain: Madrid (Velasco, 1990); Southwest islands of Japan (Sudzuki *et al.*, 1992); R. Vecht & pools "De Petten" in Sneek, NL (Dresscher, 1976); River Danube (Enaceanu & Brezeanu, 1970); R. Elbe estuary (Schulz, 1961); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Ponds Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Hamburg area, Germany (Rühmann, 1961); Serbian section of r. Danube (Zivkovic, 1987); Lake of Hokuriki district, Japan (Kanetsuna, 1973)

- Oriental region: India (Sharma, 1983); Malaysia & India (Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981)

- Australian region: Vic, Aust. (Shiel & Koste, 1985); Fresh & brackish waters in Vic, A. & Tasmania (Koste & Shiel, 1987b)

- Neotropical region: Argentina (Koste & José de Paggi, 1982); Prov. Rio Negro, Argentina (José de Paggi, 1990); Reconquista river, Argentina (Kuczynski, 1991)

Brachionus quadridentatus Hermann, f. *schwoerbeli* Koste, 1988

- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia (Sudzuki, 1989)

Brachionus quadridentatus Hermann, f. *splendidus* Donner, 1964

- Palaeartic region: In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps (Austria) (Donner, 1964); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lake Neusiedlersee, Austria (Donner, 1979); Lake Bansee, near Seon, Bavaria, Germany (Preisler, 1977a & 1977b)

Brachionus quadridentatus Hermann, f. *zernovi* Voronkov, 1907

- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia (Sudzuki, 1989)

Brachionus rubens Ehrenberg 1838

- Palaeartic region: Delta of r. Danube, Romania (Rudescu & Marinescu-Popescu, 1969); Exper. fish culture station at Golysz, catchment area of the Upper Vistula river, Poland (Lemkowicz, 1984); Rock-pools in S Finland (Björklund, 1972a); Lake Léman, Fr./CH (Balvay *et al.*, 1985; Balvay & Laurent, 1981, 1989, 1990a & 1990b); Pond near Frankfurt & Lake Groszer Binnensee near Plön, Germany (Rothhaupt, 1990a); Lake Groszer Binnensee near Plön, Germany (Rothhaupt, 1991); Pool in Chartrainvilliers, Eure-et-Loir, France & pool in Romainville (Yvelines), France (Pourriot *et al.*, 1986; Pourriot & Snell, 1983; Pourriot *et al.*, 1980); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Balearic archipelago, Spain (de Manuel *et al.*, 1992); Ponds in "Artis", Amsterdam; R. Amer near Drimmelen; Bakkerskooi, Overijssel; Lake Breedewater, Voorne; coast of Ysselmeer in Elburg, NL (Dresscher, 1976); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); 3 localities in Belgium (De Ridder, 1986); Brackish waters near Bruges, Belgium (De Ridder & Verheye, 1980); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Ellesmere district, UK (Galliford, 1960a); Canal Leeds-Liverpool, UK (Galliford, 1960b); Lakes N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of river Odra, Poland (Klimowicz, 1979); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Pool near Frileux village, Essonne, France (Pourriot & Rougier, 1976); Pool at Romainville, Yvelines, France (Pourriot *et al.*, 1981 & 1984); Gent, Belgium (De Maeseneer, 1979); Romania (Rudescu, 1960); Bafra Lake, E Turkey (Emir, 1989); Carp ponds in S Poland (Zurek, 1980); River Hase, NW Germany (Koste, 1976b); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Impoundment Helme, near Kelbra (Kyffhäuser), Germany (Heynig, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Boatracing canal, Gent, Belgium (De Maeseneer, 1972; Vanderbeken, 1977; Coussement, 1982); Canal de Séclin, Nord, France (Angeli, 1972); Lakes in Marismas, Spain (De Ridder, 1962b); In sedimentary ponds of a yeasts factory at Jozefow near Blondie, Poland (Pilarska, 1972 & 1977a); Lower Silesia, Poland (Pawlowski, 1960); River Grabia basin, Poland (Pawlowski, 1973); Latorica, E Slovakia

- lowland, CSR (Terek, 1990a); Mare de la Benérie (Limours Pond), France (Pourriot *et al.*, 1969); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lakes in Soviet Karelia, R.F. (Filimonova, 1976); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Ponds in the Kochubey Fishfarm (Dagest.) (Sal'nikov & Badmina, 1979); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); Groszer Binnensee, Baltic Coast, Germany (Lampert & Rothhaupt, 1991); Baikal biological station, R.F. (Loznikova *et al.*, 1981); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960; Caspers, 1964); Pond near Frankfurt, Germany (Halbach, 1984); Japanese inland waters (Yamamoto, 1960a); Lake Batlava impoundment, CSR (Yankovic, 1975); Guanotropic L. Bakkerskooi, Wanneperveen, NL (Leentvaar, 1967b); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Pond in Nidda area, near Frankfurt/Main, Germ. (Rothhaupt, 1985); Hamburg area, Germany (Rühmann, 1961); Hamburg harbour, Germany (Rühmann, 1962); Middle course of r. Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pools in Rambouillet & Gif-sur-Yvette, France (Pourriot, 1965); Ponds in Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Serbian section of r. Danube (Zivkovic, 1987); Near Jalroni, China (Wulfert, 1968); Spain: Barcelona, Ciudad real, Huelva, Madrid & Sevilla (Velasco, 1990); Experimental ponds at Golysz, Poland (Lemkowicz, 1971; Zurek, 1974); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); Lake Kita-gata, Hokuriki district, Japan (Kanetsuna, 1973); Near Trebon, S Bohemia, CSR (Albertova, 1960); River Guadalquivir, Spain (Guisande & Toja, 1988); Afghanistan (Bērziņš, 1961); Lake Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Finland (Eriksen, 1969); River Loire, France (Lair, 1980); Brackish waters along Span. Meditt. coast (Miracle *et al.*, 1987); Mine waters in E Poland (Radwan & Paleolog, 1983); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983); Slovenia, ex-Yugoslavia (Markic, 1983); All continents (Dumont, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); C & S Sweden (Bērziņš & Pejler, 1987 & 1989a; Pejler & Bērziņš, 1989); District Ostrava, CSR (Dvorakova, 1960b); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Bamberg-Höchststadt area, Germany (Halbach, 1973); Nat. Res. Jursky Sur, CSR (Hudec, 1978); In activated sludge, Warsaw, Poland (Klimowicz, 1972b); Vogelmeer near Ymuiden & Breedewater, Voorne, NL (Leentvaar, 1963b); Laarder Wasmeer, Gooi, NL (Leentvaar, 1963c); Soviet section of r. Danube (Parchuk, 1985); In all zoogeographical regions (Pejler, 1977); Impoundment Kninicki, Poland (Kubicek, 1964)
- Nearctic region: Canada (Chengalath, 1977); Ontario, Canada & Illinois, USA (Bērziņš, 1984); Illinois river, USA (Brown *et al.*, 1989); Altiplanicio Central, Mexico (Vilaclara & Sladeczek, 1989); Laurentian Great Lakes (Stemberger, 1979); Northern Michigan inland lakes (Stemberger, 1990); Bayou de Siard, Monroe, Louisiana, USA (Gallagher, 1965)
- Oriental region: 2 sewage channels of Gwalior, India (Saksena & Kulkarni, 1986); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); 2 ponds in Pilani, Rajasthan, India (Nayar, 1970); Orissa, E India (Sharma, 1978c); Java (Green & Oey, 1974); Lake Parakrama, Sri Lanka (Fernando, 1984); Sri Lanka (Fernando, 1969 & 1980a; Mendis & Fernando, 1962); Buckingham Canal, Madras, India (Ravichandran *et al.*, 1988); Singapore (Karunakaran & Johnson, 1978); Malaysia, Singapore, Sri Lanka, India (Sudzuki, 1989); Sri Lanka: rare, found in ponds & small lakes (Chengalath, Fernando & Koste, 1973); Kashmir valley & high mountains of Kashmir Himalaya (Zutshi, 1980); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Bhairidevarkop Pond, Kamataka State, India (Patil & Gouder, 1985); River Yamuna, India (Rai, 1974); Fishponds in Kalyani, W Bengal, India (Jana *et al.*, 1980); Panjab State, NW India (Sharma, 1976 & 1980); West Bengal, NE India (Sharma, 1979a)
- Australian region: Billabong r. Murray, SE Aust. (Shiel & Koste, 1983); Mt. Buffalo, alt. 2300 m, Aust. (Bērziņš, 1982); Qld & Vic, Aust. (Shiel & Koste, 1979); River Murray & billabongs, Aust. (Shiel, 1983); Cosmopolitan in fresh and brackish waters. Qld, Vic, Aust. Uncommon (Koste & Shiel, 1987b); Christchurch, New Zealand (Russell, 1960)
- Neotropical region: Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Arroyo Rodriguez, prov. Buenos-Aires, Argent. (Modenutti, 1987); Argentina, Brazil, Venezuela & Antillas (Koste & José de Paggi, 1982); Caribbean part of the Neotropis (De Ridder, 1977); Aruba, Bonaire, Costa Rica, Trinidad (Collado *et al.*, 1984); Lago de Valencia, Venezuela (De Infante, 1980); Reconquista river, Argentina (Kuczynski, 1991); Jujuy & Mendoza, Argentina; Brazil (Olivier, 1965)
- Brachionus rubens* Ehrenberg, f. *moravica* Sramek-Husek, 1944**
- Palaearctic region: Southwest islands of Japan (Sudzuki *et al.*, 1992)
- Oriental region: Singapore (Sudzuki, 1991)
- Note: *recte*: *Brachionus rubens* f. *moravicus*
- Brachionus satanicus* Rousselet, 1913**
- Nearctic region: Canada (Chengalath, 1977); N America (Dumont, 1983); Nearctic region (Pejler, 1977); USA & Canada (Olivier, 1965)

- Neotropical region: Laguna Gomez, NW of Buenos Aires, Argent. (Boltovskoy *et al.*, 1984); S America (Dumont, 1983); Neotropis (Pejler, 1977); Argentina & Brazil (Koste & José de Paggi, 1982); Prov. Chubut, San Luis & Buenos Aires, Argent. (José de Paggi, 1990); Prov. Buenos Aires & San Luis, Argent. (Olivier, 1965)

***Brachionus sericus* Rousselet, 1907**

- Palaearctic region: River Volga, R.F. (Mordukhai-Boltovskoi, 1979b); Pool & peat bog in the Paris suburb, France (Pourriot, 1965); Spain: Sevilla (Velasco, 1990); Romania (Rudescu, 1960); River Guadalquivir, S Spain (Guisande & Toja, 1988); Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); In several localities in E NL (acid waters) (Leentvaar, 1960); Delta of r. Danube, Romania (Prunescu-Arion, 1989); Achmer Grasmoor, NW Germany (Koste, 1968b); Baikal Cellulose plant, L. Baikal, R.F. (Pomazkova & Kozlova, 1976); C Eur. mountains, Pontic prov., W, C & E Eur. plains, Baltic prov., Ireland, UK, N Sweden, NW Russian taiga (Bērziņš, 1978); Gif-s-Yvette, Essonne, France (Pourriot, 1964); Reinbeker Tonteich, Holstein, Germany (Ohle, 1981); Southwestern islands of Japan (Sudzuki *et al.*, 1992); Hilversumse Wasmeer & Leersumse Veld, NL (Leentvaar, 1967b; Dresscher, 1976); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of Danube r., at the German-Austrian border (Donner, 1972); Hamburg area, Germany (Rühmann, 1961); Brookpond system at Boom, Belgium (Maes, 1985; De Ridder, 1986); Bullhousen Pond, Bisley, Surrey, UK (Pontin & Pontin, 1980); Rock-pools E of Ballancourt, 40 km S of Paris, France (Pourriot, 1974); Reed borders of the Danube delta, Romania (Rudescu, 1968)

- Australian region: Magela Creek billabong, NW Aust. (Shiel & Koste, 1983); Billabongs NT, Aust. (Shiel, 1983); Tasmania & New Zealand (Sudzuki, 1985); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983); (Tait, Shiel & Koste, 1984); Cosmopolitan in dystrophic and acid (SO₄) waters. NT in Aust. Rare (Koste & Shiel, 1987b)

***Brachionus sessilis* Varga, 1951**

- Palaearctic region: Lake Balaton, Hungary (Zankai, 1968 & 1989; Zankai & Kertesz, 1967; Zankai & Ponyi, 1970 & 1971a); Europe, Asia, Africa, Australia (Dumont, 1983); Hungarian plain (Bērziņš, 1978); Middle course of r. Loire, France (Lair & Sargos, 1981); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Spain: Lerida (Velasco, 1990)

- Oriental region: India (Sharma & Michael, 1980; Sharma, 1983); Sri Lanka (Fernando, 1980a); Taiwan (Sudzuki, 1988); Taiwan, Malaysia, Sri Lanka, India (Sudzuki, 1989); Sri Lanka: in one lake, on *Diaphanosoma excisum* (Sars) (Chengalath, Fernando & Koste, 1973); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990)

- Australian region: Billabongs in Wodonga, Vic, Aust. (Shiel, 1983); NT, Aust. (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Probably cosmopolitan, Epizoic on Cladocera. NT billabongs, Aust. (Koste & Shiel, 1987b)

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Prov. Santa Fé, Argentina (José de Paggi, 1990)

***Brachionus urceolaris* O.F. Müller, 1773**

- Palaearctic region: Canal de Séclin, Nord, France (Angeli, 1972); Lake Myvatn, Iceland (Adalsteinsson, 1974 & 1979); Baisse salée, Camargue, S France (Aguesse, 1960); Impoundment Saidenbach, Erzgebirge, Germany (Beuschold, 1961); River Klyas'ma, R.F. (Bogoslawski, 1961); Heiluntsian province, China (Bogoslawski, 1962); Impoundment "Eisernes Tor", Danube, Rom. (Brezeanu & Peten, 1973); Albufera de Valencia, Spain (Oltra & Miracle, 1984); Lake Cullera near Valencia, Spain (Miracle & Vicente, 1983); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989); Slovenia, ex-Yugoslavia (Markic, 1983); All continents (Dumont, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Bamberg-Höchststadt area, Germany (Halbach, 1973); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Alkal. Péteri-See, Hungary (Kertesz, 1960); Lake Muy on Texel island, NL (Leentvaar, 1967); Laarder Wasmeer, Gooi, NL (Leentvaar, 1963c); Broads & peatpits, NW Overijssel, NL (Leentvaar, 1965); Lake Bielersee, CH (Berner-Fankhauser, 1986); River Guadalquivir, S Spain (Guisande & Toja, 1988); Middle course of r. Po, Italy (Ferrari *et al.*, 1986); Afghanistan (Bērziņš, 1961); Lagoon "La Ricarda", near Barcelona, Spain (Miracle & Guiset, 1977); Lake Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Peat bogs in Finland (Selin & Koskinen, 1988); Finland (Eriksen, 1969); Brackish waters Moerdijk-Hollands Diep, NL (Leentvaar, 1980); River Loire, France (Lair, 1980); Lagoon "La Ricarda", 10 km S of Barcelona, Sp.; Lagoon of Cullera, 35 km S of Valencia, Spain (Miracle *et al.*, 1988); Romania (Rudescu, 1960); Terek delta, Astrakhan peninsula, R.F. (Chuykov & Deneskin, 1985); Soviet section of r. Danube (Parchuk, 1985); In many water bodies in Turkey (Emir, 1991); Acid pools in Lower Austria (Wawrik, 1972); Korea (Turner, 1986); Japanese inland waters (Yamamoto, 1960a); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960); Sava Lake, ex-Yugoslavia (Kalafatic, 1978); Reinbeker Tonteich, Holstein, N Germany (Ohle, 1981); Sewage-purification plant A'dam West, NL

(Dresscher, 1960); Southwest islands of Japan (Sudzuki *et al.*, 1992); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); Lower Danube, Romania (Enaceanu, 1964); Lower Elbe, Germany (Grimm, 1968); Hamburg Harbour, Germany (Tent, 1981); River Danube (Austria to Romania) (Wawrik, 1968); Serbian section of r. Danube (Zivkovic, 1968 & 1987); Near Dachau, Germany (Buchner, 1992); Südharz & Kyffhäuser, Germany (Spangenberg, 1973); R. Lausitzer Neisse & Oder, Germany (Walter & Scharf, 1961); Lac Léman, Fr./CH (Martin, 1961; Balvay & Laurent, 1981); ? Lake Tüzer See, Neubrandenburg, Germany (Doll, 1984); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); All over the Netherlands (Dresscher, 1976); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); All over Belgium (De Ridder, 1986); Boatracing canal, Gent, Belgium (De Maeseneer, 1979); Etang des Monts Rosés, Sivry, Belgium (De Ridder, 1980); Ponds near München, Germany (Buchner, 1982 & 1987); Lake Neujahrsloch, Hessen, Germany (Menzel, 1968); River Elbe estuary, Germany (Schulz, 1961); Small rivers, tributary to Kiev reservoir, R.F. (Polishchuk, 1987); Naroch Sanitorium, Belorussia, R.F. (Krynckova, 1989); Inundation area of Danube delta, Romania (Dorobantu, 1964); Baltic Sea, ? S North Sea, British Channel & Irish Sea (Bērziņš, 1960); Lake Balaton, Hungary (Zankai, 1968); Impoundment in E Bohemia, CSR (Sladeczkova & Sladeczek, 1960); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Mare de la Bénérie (Limours ponds), France (Pourriot *et al.*, 1969); Karagül, near Izmir, Turkey (Ustaoglu, 1986); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976); Brackish fishponds in C Japan (de Beauchamp, 1963); R. Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Volga river, R.F. (V'yushkova & Lakhnova, 1974); Waters in Soviet Karelia, R.F. (Filimonova, 1976); Peridunar pond Dulce, Doñana Nat. Park, Spain (Lopez, 1991); Near Szarvas, Hungary (Tamas, 1975); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Rivers in W Kazakhstan, R.F. (Petrova, 1976); Dniester estuary, R.F. (Polishchuk, 1976); Treatment ponds in the Astrakhan province, R.F. (Chuykov, 1979); Aral Sea spawning grounds, R.F. (Jerekeyev & Kazakhbayev, 1972); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); "Grote vijver" fort 8, Hoboken (Antw., B) (De Smet *et al.* 1986); "Kleine vijver" fort 8, Hoboken (Antw., B) (De Smet *et al.* 1987); Spanish reservoirs (de Manuel, 1991); Lake Biwa, Japan (Yamamoto, 1960b & 1967); Kaifeng, China (Wulfert, 1968); All over Spain (Velasco, 1990); Gravel pits along r. Meuse, NL (Wibaut-Isebree Moens, 1964); Waters near r. Bodrog, NE Hungary (Dévai *et al.*, 1972-1973); Impoundment Twistetalsperre, Nordhessen, Germany (Meinel *et al.*, 1983); ? Pools Erpewaaien near Nijmegen, NL (Leentvaar, 1970); Ellesmere District, UK (Galliford, 1960a); Canal Leeds-Liverpool, UK (Galliford, 1960b); Knowsley Park, Liverpool (Galliford, 1964); Shores of the White Sea, R.F. (Ghilarov, 1967); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Impoundment Weidatalsperre, E Thür., Germ. (Hoffmann, 1966); Lower course of r. Sambre, Belgium (Dumont & Van Vossel, 1973); Sambre river, Belgium (Dumont *et al.*, 1975); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of r. Odra, Poland (Klimowicz, 1979); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); R. Woluwe valley, Brussels, Belgium (Lamaye, 1975); River Loire, France (Lair *et al.*, 1978); Side-arm of r Danube, Bratislava, CSR (Lichardova, 1964); Small water bodies in the Mikolajkie area, Pol. (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Bog pond near Budapest, Hungary (Nogrady, 1962); Black Sea (Rudescu, 1961); Bulgarian bank of r. Danube (Naidenow, 1963); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Leczna-Wlodawa Lake district, E Poland (Kowalczyk & Radwan, 1982); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Hamburg area, Germany (Rühmann, 1961 & 1965a); R. Alster in Hamburg, Germany (Rühmann, 1967); Middle course of r. Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Several localities on Sambre river on the French-Belgian border (Waeyaert, 1972); Pond in Rambouillet, Yvelines, France (Pourriot, 1965); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Periphytic biota in sewage & park waters, Japan (Sudzuki, 1981); River Danube (Enaceanu & Brezeanu, 1970); Brackish waters along Sp. Meditt. coast (Miracle *et al.*, 1987); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); All zoogeographical regions (Pejler, 1977); Romania (Rudescu, 1960); C & S Sweden (Bērziņš & Pejler, 1989a); Ponds in Surrey, UK (Pontin, 1989); Po river, Italy (Ferrari *et al.*, 1989); Lake Numasawa, Japan (Sudzuki *et al.*, 1989); Bafra Lake, E Turkey (Emir, 1989); Koyama-Ike, a coastal pond in Japan (Sudzuki & Fukuta, 1989); Minorca, Spain (de Manuel, 1990); Lake Orog-Nur, Gobi desert, Mongolia (Koste & Wulfert, 1964); Engelbergs moor, near Druchhorn, NW Germany (Koste, 1965); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Sphagnum bogs in the Massif Central, France (Batut, 1965); Treatments ponds of Naroch Sanitorium, R.F. (Krynckova, 1990); C & S Sweden (Pejler & Bērziņš, 1989); Impoundment Helme, near Kelbra, Kyffhäuser, Germany (Heynig, 1968); Lake Donk, Overmere, Belgium (Claus & Dall'Asta, 1972; Coussement & De Henau,

1975); Boatracing canal, Gent, Belgium (De Maeseneer, 1972; Vanderbeken, 1977; Coussement, 1982); Pond botanical garden, Gent, Belgium (Verheye, 1980); River Lieve, Gent, Belgium (De Smet & Evens, 1970); R. Meuse Liégeoise, Belgium (Baiverlin, 1984); Lake Akgöl, Selçuk-Izmir, Turkey (Ustaoglu & Balik, 1987); Lake Kus, Turkey (Ustaoglu & Balik, 1990a); Lake Gebekirse, Izmir, Turkey (Ustaoglu & Balik, 1990b); Lake Marmara, Turkey (Ustaoglu, in press); Camargue, S France (De Ridder, 1960a & 1961); R. Yzer & Handzame Canal, Diksmuide, B. (De Ridder, 1960b); Reservoir Vrané, 17 km S of Prague, CSR (Sladeczek, 1962); Water works Jungfernheide, Berlin, Germ. (Ritterbusch, 1974)

- Nearctic region: Canada (Chengalath, 1977); Ontario, Canada (Chengalath *et al.*, 1971; Chengalath & Fernando, 1973); Milwaukee Harbour, USA (Stemberger, 1974); Illinois, USA (Bērziņš, 1984); Colorado, USA (Turner, 1988); Altiplanicie Central, Mexico (Vilaclara & Sladeczek, 1989); Baker L., Great Basin Nat. Park, Baker, Nevada (Starkweather, 1990); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Lake at Santee, California (Nogrady, 1982); Laurentian Great Lakes (Stemberger, 1979); Lake Mendota, Wisconsin, USA (Pedros-Alio & Brock, 1983); Exper. ponds near Bakersfield, Kern Co, California (Hurlbert *et al.*, 1972)

- Oriental region: Parakrama Samudra, Sri Lanka (Duncan, 1983a; Duncan & Gulati, 1983; Fernando & Rajapaksa, 1983); Lake Parakrama, Sri Lanka (Fernando, 1984); Lake Govindgach, India (Serruya & Pollinger, 1984); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1985); Oxidation ponds near Nagpur, C India (Arora, 1962b); Tank near Nagpur, C India (Arora, 1966b); India (Sharma & Michael, 1980; Sharma, 1983); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Fernando, 1980a); Singapore (Karunakaran & Johnson, 1978); Taiwan, Malaysia, Sri Lanka, Philippines (Sudzuki, 1989); Rice fields of North Kriau, Perak, Malaysia (Ali, 1990); Victoria reservoir, Sri Lanka (Piyasiri & Jayakody, 1991); Sri Lanka: in small & large lakes, littoral (Chengalath, Fernando & Koste, 1973); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); Reservoir Parakrama Samudra, Sri Lanka (Duncan, 1984); River Yamuna, India (Rai, 1974); Panjab State, NW India (Sharma, 1976 & 1980); West Bengal, NE India (Sharma, 1979a)

- Australian region: Qld, Vic, Aust. (Shiel & Koste, 1979); All over Australia (Shiel, 1983); NSW, Vic, W Aust., Tasmania. Cosmopolitan (Koste & Shiel, 1987b); Mt. Buffalo, alt. 2000 m, Aust. (Bērziņš, 1982); Darling river, SE Aust. (Koste & Shiel, 1980); Billabong r. Murray, SE Aust. (Shiel & Koste, 1983); SW Aust. (Koste, Shiel & Brock, 1983); Reservoirs in SE Aust. (Shiel *et al.*, 1987); NW Aust.: Magela Creek area (Koste, 1981b); Gwydir river, Darling r. system, S Aust. (Shiel & Walker, *s.d.*); Darling river, S Aust. (Shiel, 1985); Rivers of the Murray-Darling system, Aust. (Shiel, 1986); Murray river (Serruya & Pollinger, 1984); Oamaru & Christchurch, New Zealand (Russell, 1960); Tasmania (Koste & Shiel, 1986b)

- Neotropical region: Sierra, Ecuador (Koste & Böttger, 1992); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Argentina (Modenutti & Claps, 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Paraguay, Brazil, Argentina, Peru & Venezuela (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Near Concepcion, Paraguay (Koste, 1986b); Prov. Chubut, Neuquen, La Rioja, Santa Fé & Buenos Aires, Argentina (José de Paggi, 1990); Bubali-pond, Aruba, Dutch Leeward Islands (Higler & van Halewijn, 1991); Argentine Patagonia (Kuczynski, 1987b); Apure river, W Venezuela (Saunders & Lewis, 1988); Costa Rica, Haiti, Jamaica & Panama (Collado *et al.*, 1984); Lago de Valencia, Venezuela (de Infante, 1980); Reconquista river, Argentina (Kuczynski, 1991); Prov. Buenos Aires, Argentina; Bolivia; Paraguay (Olivier, 1965); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Brachionus urceolaris amazonica Koste & Robertson, 1983

- Neotropical region: Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Orinoco river basin, Venezuela (Vasquez, 1984); Lago do Macaco, Brazil (Koste, 1989a); Rio Jatapu, Amazonia, Brazil (Koste & Hardy, 1984); Near Concepcion, Paraguay (Koste, 1986); Prov. Santa Fé, Argentina (José de Paggi, 1990); Ecuador: Oriente & Sierra (Koste & Böttger, 1992)

Brachionus urceolaris O.F. Müller, f. *reductispinis* Kuczynski, 1991

- Neotropical region: Reconquista river, Argentina (Kuczynski, 1991)

Brachionus urceolaris O.F. Müller, f. *semicircularis* Sudzuki, 1989

- Oriental region: Singapore (Sudzuki, 1989); Singapore (mangrove marsh) (Sudzuki, 1991)

Brachionus urceolaris O.F. Müller, f. *urawensis* Sudzuki, 1989

- Oriental region: South India (Naidu, 1967)

Brachionus variabilis Hempel, 1896

- Palaearctic region: Palaearctic, Nearctic & Neotropical regions (Pejler, 1977); N & S America. Occasionally in Europe (Dumont, 1983); River Guadalquivir, Spain (Guisande & Toja, 1988); Brackish waters along Span. Meditt. coast (Miracle *et al.*, 1987); Boatracing canal Gent, Belgium (Coussement *et al.*, 1976; Vanderbeken, 1977; Coussement, 1982); Korea (Turner, 1986); Spain: Sevilla (Velasco, 1990); Gent,

Belgium (De Maeseneer, 1979; De Ridder, 1986); Middle course of r. Loire, France (Lair & Sargos, 1981)
 - Nearctic region: Laurentian Great Lakes (Stemberger, 1979); Great Dismal Swamp, Virginia-N Carolina border, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Colorado, USA (Turner, 1988); Near Monroe, Louisiana, USA (Gallagher, 1966); San Francisco, USA (Nogrady, 1983)
 - Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981)
 - Australian region: Billabongss of r. Murray, Aust. (Shiel, 1983); Vic, Aust. (Koste & Shiel, 1980c); Cosmopolitan in fresh water; epizoic on Cladocera or free swimming; NSW & Vic; rare in Australia (Koste & Shiel, 1987b)

- Neotropical region: R. Orinoco, Venezuela (Vasquez & Koste, 1988); Lower Orinoco R. and its delta, Venezuela (Vasquez & Rey, 1989); Peru & Argentina (Koste & José de Paggi, 1982); Prov. Buenos Aires, Argentina (José de Paggi, 1991); Lake Titicaca (Serruya & Pollingher, 1984)

Brachionus variabilis Hempel, f. *kohamensis* Sudzuki, 1992

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1992; Sudzuki *et al.*, 1992)

Brachionus variegatus Krau, 1962

- Oriental region: Malaysia (Sudzuki, 1989)

- Neotropical region: Lagoa Santa, Minas Gerais, Brazil (Krau, 1962); Neotropical region (Pejler, 1977); S America (Dumont, 1983)

Brachionus voighti Hauer, 1961

- Neotropical region: Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); Solimoes area, Brazil (Hauer, 1961)

Note: see also *Brachionus mirus* f. *voighti*

Brachionus zahniseri Ahlstrom, 1934

- Nearctic region: Nearctic, Ethiopian, Australian & Neotropical regions (Pejler, 1977); Australia, N & S America & Asia (Dumont, 1983); Great Dismal Swamp, Virginia-N Carolina border, USA (Anderson, Benfield & Buikema, 1977); Experimental ponds, C Florida, USA (Fry & Osborne, 1980); Corner Lake & Bay Lake, Florida, USA (Elmore *et al.*, 1984); Near Monroe, Louisiana, USA (Gallagher, 1966)

- Australian region: Auckland, New Zealand (Russell, 1960)

- Neotropical region: Island Lake, L. Hemmen & Crescent L., Rio Snia Missu, Mato Grosso, Brazil (Green, 1972); Ecuador: Oriente (Koste & Böttger, 1989); Orinoco river basin, Venezuela (Vasquez, 1984a); Lago do Macaco, Brazil (Koste, 1989a); Lago Paroni, Brazil (Koste, 1984a); Brazil (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983); Lago Lagoven, Orinoco floodplain lake, Ven. (Vasquez & Rey, 1992); Laguna de Orsinera, a floodplain lake, Ven. (Twombly & Lewis Jr., 1987); Lake Aguilera, Orinoco floodplain lake, Ven. (Hamilton *et al.*, 1990); Oriente & Costa, Ecuador (Koste & Böttger, 1992)

Brachionus zahniseri Ahlstrom, f. *reductus* Hauer, 1965

- Neotropical region: River Parana, Argentina (José de Paggi, 1978b & 1985); Amazonia, Brazil, Venezuela (Koste, 1972f); Venezuela, Brazil, Argentina, Panama (Koste & José de Paggi, 1982); Rio Jatuma, Amazonia, Brazil (Koste & Hardy, 1984); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Prov. Santa Fé, Argentina (José de Paggi, 1990); Amazonia, Brazil (Hauer, 1965; Thomasson, 1971); Lago do Castanho, near Manaus, Amazonia, Brazil (Schaden, 1977a & 1977b); Lago do Rey, L. Jurucui, L. Tefé, Rio Negro, L. do Passarinho & L. do Castanho, Amazonia, Brazil (Schaden, 1977c); Lago Cristalino, Amazonia, Brazil (Hardy, 1980); L. Castanho, L. Cristalino & L. Taruma-Mirim, Brazil (Serruya & Pollingher, 1984)

Brachionus spec.

- Palaearctic region: Reservoir Sedlice, near Zeliv, Bohemia, CSR (Sladeczkova, 1960); Near Hamburg, Germany (Berghahn, 1979); Near Cambridge, UK (Jenkin, 1982); Lake Kinneret, Israel (Landau *et al.*, 1988); Lake in Japan (Hanazato & Yasumo, 1988); Jordan reservoir, Bohemia, CSR (Mitiska *et al.*, 1962); Lake Kasumigaura, Japan (Hanazato, 1990); Lake Duvankué, S Urals, R.F. (Kozlova, 1976); Test field Wielenbach, Bavaria, Germany (Kucklantz, 1991); Saratov reservoir, R.F. (Popchenko *et al.*, 1981); Backwater Labicko, Middle-Elbe, CSR (Straskraba, 1965); Chaingoin Lake, N Tibet (Williams, 1991); Lake Giulianello, Latium, Italy (Stella & Margaritora, 1972); Lough Erne system, NW Ireland (Gibson *et al.*, 1980); R. Lausitzer Neisze, Germany (Walter & Scharf, 1961); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Elbe estuary, Germany (Giere, 1968); River Danube & its tributaries (Bothar, 1982); 3 small ponds near Besse-en-Chandesse, Massif Central, France (Omaly & Dévaux, 1971); Impoundment Helme, near Kelbra, Kyffhäuser, Germany (Heinig, 1980); Loosdrecht Lakes, NL (Gulati *et al.*, 1992; Van Tongeren *et al.*, 1992); Lago Trasimeno, Italy (Taticchi, 1968); Pond in Erlangen-Nürnberg, Germany (Korn, 1972)

- Nearctic region: 5 small mountain lakes in Alberta, Canada (Anderson, 1968); L. St. George, King township, Ontario, Canada (Malone & McQueen, 1983); Lake Huron, USA (Stemberger & Gannon, 1977); Reservoir near Aiken, S Carolina, USA (Taylor & Mahoney, 1985); Patricia Lake & Celestine Lake, Jasper Nat. Park, Alberta, Canada (Anderson, 1970b); Lake Arlington, Tx, USA (Sterner, 1990); N America Great Lakes, USA (Gannon, 1981); Green Bay, Lake Michigan, USA (Richman *et al.*, 1984); South Platte river, C Colorado, USA (Ward, 1975); NW Colorado, USA (Cauton & Ward, 1981); Sacramento-San Joaquin delta estuary, USA (Siegfried & Kopache, 1980); Tuktoyaktuk Harbour, NWT, Canada (Sutherland, 1982); Lake Erie, Canada (Davis, 1969); Lake Frances, Oklahoma, USA (Threlkeld & Choinski, 1985); Exper. ponds near Bakersfield, Kern Co, California (Hurlbert *et al.*, 1972)
- Oriental region: Buckingham canal, Madras, India (Ravichaudran *et al.*, 1988); Jamwa Ramgard freshwater reservoir, Rajasthan, India (Gopal *et al.*, 1981); Near Patiala, Punjab, India (Vasisht & Jindal, 1980); South India (Naidu, 1967); Ponds in Chinglepat, Madras, India (Sreenivasan, 1968); 3 upland lakes of Madras State, India (Sreenivasan, 1964); Sagar Lake, Sagar, India (Saksena & Adoni, 1973); 2 ponds at Pilani, Rajasthan, India (Nayar, 1970); Lake Govindgarh, India (Serruya & Pollinger, 1984)
- Neotropical region: S Brasilia (Arcifa, 1984); Bubali pond, Aruba, Dutch Leeward islands (Higler & Van Halewijn, 1991); Billabongs reservoir, São Paulo, Brazil (Sendacz, 1985); Rivers in the E plains of Venezuela (Sanchez *et al.*, 1985); Floodplain lake of the Lower Orinoco r., Ven. (Vasquez *et al.*, 1992); Lower Orinoco river, Venezuela (Saunders & Lewis Jr., 1989)

Bryceella Remane, 1929

Bryceella stylata (Milne, 1886)

- Palaearctic region: Canal de Séclin, Nord, France (Angeli, 1972); Between mosses on old thatched roofs, Bersenbrück area, NW Germany (Koste, 1968a); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); C & S Sweden (Bērziņš & Pejler, 1987); Romania (Rudescu, 1960); Darnsee near Epe, NW Germany (Koste, 1962); Achmer Grasmoor, NW Germany (Koste, 1968b); Nearly all over Europe (Bērziņš, 1978); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez, 1984c & 1988; Francez & Dévaux, 1985); R. Salzach and its tributaries, Austria (Donner, 1970); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog Laptici, Bucegi mountains, Rom. (Godeanu, 1970); Running waters in the Bucegi mountains, Rom. (Godeanu, 1963b); Temporary waters in the Bucegi mountains, Romania (Godeanu, 1969a); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Peat bog Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Iriomote island, Japan (Sudzuki, 1979)

Bryceella tenella (Bryce, 1897)

- Palaearctic region: Between mosses on old thatched roofs, Bersenbrück area, NW Germany (Koste, 1968a); Romania (Rudescu, 1960); Achmer Grasmoor, NW Germany (Koste, 1968b); Lake Balaton, Hungary (Zankai, 1968); Courland Spit, R.F. (Zhadin, 1972); All over Europe (Bērziņš, 1978); Peat bogs Chambedaze & La Godivelle, Massif Central, France (Francez & Dévaux, 1985; Francez, 1984c); Soils in E Austria (Donner, 1972); La Roca near Granollers, N of Barcelona; Montserrat, Catalonia; Arampruya, S of Barcelona (Donner, 1970b); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Spain: Barcelona & Madrid; Canarias: La Gomera; Portugal; Madeira (Velasco, 1990); La Gomera, Canarias; Madeira (Donner, 1970b)
- Australian region: Auckland, New Zealand (Russell, 1960)
- Neotropical region: Tropical forest near the coast, 70 km S of Rio de Janeiro, Brazil; National Park, 20 km S of Rio; Puerto Ingles, Island Mas a Terra, Chile (Donner, 1980); Brazil (Koste & José de Paggi, 1982)

Bryceella voighti Rodewald, 1934

- Palaearctic region: Carpathes, Hungarian plain & C Eur. plains (Bērziņš, 1978); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Romania (Rudescu, 1960); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a); In soils, litter and mosses in forests, Japan (Sudzuki, 1978b)
- Australian region: Bombala, NSW, Aust. (Bērziņš, 1982); NSW, Aust. (Shiel & Koste, 1985); ? NSW, Aust., "we regard it as an unverified record of an indeterminate taxon" (Koste & Shiel, 1990b)

Bryceella spec.

- Palaearctic region: Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a); In soils, litter and mosses in forests, Japan (Sudzuki, 1978b); Iriomote Island, Japan (Sudzuki, 1979); Akiyoshi caves, Japan (Sudzuki, 1991a)
- Oriental region: Malaysia (Sudzuki, 1989)

Cephalodella Bory de St. Vincent, 1826*Cephalodella aeschyna* Myers, 1934

- Palaearctic region: Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)

Cephalodella akrobes Myers, 1934

- Palaearctic region: Nat. Res. Oosterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); C Eur. plain (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella anebodica Bērziņš, 1976

- Palaearctic region: Lake Stråken, S Sweden (Bērziņš, 1976); C Eur. plains (Bērziņš, 1978)

Cephalodella angusta Myers, 1924

- Palaearctic region: Coast of S Finland (Eriksen, 1969); NW Russian taiga (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella apocolea Myers, 1924

- Palaearctic region: Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Neunzehnhainer Talsperre, Germany (Althaus, 1976); River Ybbarpsån, Sweden (Bērziņš, 1979); Coast of S Finland (Eriksen, 1969); L. Stråken, Aneboda, Sweden (Bērziņš, 1972); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Romania (Rudescu, 1960); Darnsee near Epe, NW Germany (Koste, 1962); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); C Eur. mountains, Carpathes, C & E Eur. plains, NW Russian taiga (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez & Dévaux, 1985)

- Australian region: In Periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); Nat. Res. Oosterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); River Danube (Enaceanu & Brezeanu, 1970); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog La Godivelle, Puy-de-Dôme, France (Francez, 1984c); Peat bog Laptici, Bucegi mountains, Rom. (Godeanu, 1970); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

- Nearctic region: Canada (Chengalath, 1977); Kingston, Ontario (Nogrady, 1989); Mesotrophic fen in Newfoundland, Canada (Bateman & Davis, 1980); N America (Bērziņš, 1978); Vinton County, Ohio, USA (Evans, 1984); Par pond, S Carolina, USA (Oden, 1979)

- Oriental region: NE Thailand (Heckman, 1979)

- Australian region: NT, Aust.: Magela Creek area (Koste, 1981b); Alligator rivers region, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985); Magela Creek, NT, Aust. (Koste & Shiel, 1991); Canterbury, New Zealand (Russell, 1960)

- Neotropical region: Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Brazil (Koste & José de Paggi, 1982)

Cephalodella arcuata Wulfert, 1937

- Palaearctic region: C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); E Eur. mountains, Hungarian plain, C & E Eur. plain, Baltic province, N Sweden (Bērziņš, 1978)

Cephalodella armata Rudescu, 1960

- Palaearctic region: Romania (Rudescu, 1960); Pontic province of Europe (Bērziņš, 1978)

Cephalodella asarcia Myers, 1942

- Palaearctic region: C Eur. plain (Bērziņš, 1978)

- Nearctic region; N America (Bērziņš, 1978)

Cephalodella asta Donner, 1970

- Palaearctic region: R. Salzach and its tributaries, Austria (Donner, 1970); Hungarian plain (Bērziņš, 1978)

Cephalodella astia Myers

- Palaearctic region: Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

Note: Name of this species nowhere to be found. Probably an erroneous transcription of *C. astricta* Myers, 1934?

Cephalodella auriculata (O.F. Müller, 1773)

- Palaearctic region: Rivers and valleys in the Tatra mountains, Poland (Madalinski, 1961); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Pond Vaugien in Gif-s-Yvette, Essonne, Fr. (Pourriot, 1965); N Swedish Lapland (Pejler, 1962a); S & C Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); Romania (Rudescu, 1960); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965);

Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); L. Bodensee near Konstanz (Koch-Althaus, 1962); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Neunzehnhainer Talsperre, Germ. (Althaus, 1976); River Klyas'ma, R.F. (Bogoslawski, 1961); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken in Aneboda, Sweden (Bērziņš, 1972); Coast of S Finland (Eriksen, 1969); Sea and rockpools in S Finland (Björklund, 1972a); L. Kisajno, Mazurian Lakeland, Poland (Klimowicz, 1964); L. Mikolajskie, Mazurian Lakeland, Poland (Klimowicz, 1972); Lake Alfsee, NW Germany (Koste & Poltz, 1987); All over Europe (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960); Lake Balaton, Hungary (Zankai, 1968); River Meuse Liégeoise, Belgium (Baiverlin, 1984); Dübener Heide, N Germany (Wulfert, 1960a, 1960b & 1961); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984c; Francez & Dévaux, 1985); Korea (Turner, 1986); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); L. Wallsee & r. Lobau, Austrian Danube basin Donner, 1978); Shores of dammed and flowing stretches of r. Danube, at the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970); Peat bogs in the Auvergne, France (Francez, 1981); Balearic archipelago, Spain (de Manuel *et al.*, 1992); R. Maas, Rijn, Waal & Yssel; Nat. Res. Oisterwijkse vennen; Nat. Res. Het Hol near Kortenhoeft; Drente, NL (Dresscher, 1979); Lake Nausiedlersee, Austria (Donner, 1979); River Danube (Enaceanu & Brezeanu, 1970); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Running waters in the Bucegi mountains, Rom. (Godeanu, 1963b); Lakes of the Black Sea shore, Romania (Godeanu, 1969a); Ellesmere district, UK (Galliford, 1960a); Canal Leeds-Liverpool, UK (Galliford, 1960b); Knowsley Park, Liverpool, UK (Galliford, 1964); Oisterwijkse vennen, NL (De Graaf, 1960); Marshy zones from plateau of Bucegi mts., Rom. (Godeanu, 1969a); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); Small water bodies in the Mikolajskie area, Poland (Klimowicz, 1967); R. Bistritza and her tributaries, Romania (Miron, 1960); Karelian inland waters, R.F. (Kutikova, 1965); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); 2 ponds in the Paris suburb, France (Pourriot, 1965); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Lake Ohrid, Balkan Peninsula (Stankovic, 1960); Spain: Barcelona (Velasco, 1990)

- Nearctic region: Colorado, USA (Turner, 1988); Kingston, Ontario, Canada (Nogrady, 1989); Canada (Chengalath, 1977); Illinois river, USA (Brown *et al.*, 1989); Lakes at Santee, California (Nogrady, 1982); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Provincial Park, Québec, Canada (Nogrady, 1980); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Laurentian Great Lakes (Stemberger, 1979)
- Oriental region: West Bengal, NE India (Sharma, 1979b); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985)

- Australian region: Creeks and river in Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985); Vic, Aust. & S Tasmania (Koste, Shiel & Tan, 1988); Qld, Aust. (Shiel & Koste, 1979); Qld, NT, Vic, Tas.; common in r. Murray bill. (Koste & Shiel, 1991); Taieri Beach & Canterbury, New Zealand (Russell, 1960)

- Neotropical region: Paraguay, Brazil, Panama (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Panama (Collado *et al.*, 1984)

- Antarctic region: Antarctica (Dartnall & Hollowday, 1985)

Cephalodella belone Myers, 1924

- Palaearctic region: Lake Stråken in Aneboda, Sweden (Bērziņš, 1972); C Eur. plains (Bērziņš, 1978)

- Oriental region: Singapore (Sudzuki, 1989)

- Neotropical region: Ecuador: Sierra (Koste & Böttger, 1989); ? Brokopondo Lake, Surinam (Leentvaar, 1979)

Cephalodella bertonicensis Manfredi, 1927

- Palaearctic region: Italy (Bērziņš, 1978)

Cephalodella biungulata Wulfert, 1937

- Palaearctic region: C Eur. mountains, Carpathes, C & E Eur. plains (Bērziņš, 1978); Water courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Bucegi mountains, Romania (Godeanu, 1969b); Up to now known from C Europe: Germany (Koste, 1986b; Wulfert, 1937) CSR (Bartos, 1959) and Austria (Donner, 1972); Shores of flowing and dammed stretches of r. Danube at the German-Austrian border (Donner, 1972); Small permanent ponds in the Bucegi mts., Rom. (Godeanu, 1969a); 3 lakes of Sosnowickie, Poland (Radwan, 1966 & 1969)

- Australian region: Vic, Aust. (Shiel & Koste, 1979); Filling Dartmouth reservoir in 1978, Aust. (Koste & Shiel, 1991)

- Neotropical region: Near Concepcion, Paraguay (Koste, 1986b); Lago Camaleão and L. Preto, on the Island Marchantaria, Rio Solimoes, Amazonia, Brazil (records not publ.) (Varzea-Koste, 1986b)

Cephalodella boettgeri Koste, 1988

- Neotropical region: Near Panguana, Peru (Koste, 1988b)

Cephalodella bryophila Pawlowski, 1938

- Palaearctic region: Romania (Rudescu, 1960); Croatia (ex-Yugoslavia) (Erben, 1987); Peat bogs in the Auvergne, France (Francez, 1981)

Cephalodella calosa Wulfert, 1956

- Palaearctic region: C Eur. mountains (Bērziņš, 1978)

See: *C. rotunda* Wulfert, f. *bryophila* Pawlowski, 1938

Cephalodella catellina (O.F. Müller, 1786)

- Palaearctic region: Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); ? Lake Myvatn, Iceland (Adalsteinsson, 1979); ? La Mancha, Cast., Spain (Armengol *et al.*, 1975); Anatolia, Turkey (Segers *et al.*, 1992); Impoundment "Eisernes Tor", Danube, Rom. (Brezeanu & Peten, 1973); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968; Zankai & Ponyi, 1970 & 1971a); Rockpools on S Finish coast (Björklund, 1972a); S Finnish coast (Eriksen, 1969); Delta of r. Danube (Godeanu & Zinevici, 1983; Prunescu-Arion, 1989); Croatia, ex-Yugoslavia (Erben, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Near Asperg, Württemberg, Germany (Klement, 1960); L. Taltowisko, Mazurian Lakeland, Poland (Klimowicz, 1972a); In activated sludge, Warsaw, Poland (Klimowicz, 1972b); Alkal. Péteri-See, Hungary (Kertesz, 1960); Romania (Rudescu, 1960); Edgeøya, Svalbard (De Smet *et al.*, 1988b); ? Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Po river, Italy (Ferrari *et al.*, 1989); Minorca, Spain (de Manuel, 1990); Darnsee near Epe, NW Germany (Koste, 1962); Lake Orog-nur, Gobi desert, Mongolia (Koste & Wulfert, 1964); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Courland Spit, R.F. (Zhadin *et al.*, 1972); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960 & 1970); R. Bistritza & her tributaries, Romania (Miron, 1960); Lowland brook-pond system at Boom, Belgium (Maes, 1985); River and valley in the Tatra mts., Poland (Madalinski, 1961); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); R. Moldova, tributary of r. Danube, Rom. (Prunescu-Arion, 1968); Black Sea (Rudescu, 1961); Bulgarian bank of r. Danube (Naidenow, 1963); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Middle course of r. Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Mickletown lagoons, Lower Aire valley, UK (Ruttner-Kolisko, 1979); 2 pools in the Paris suburb, France (Pourriot, 1965); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a); Near Ichun, China (Wulfert, 1968); Spain: Barcelona, ? Ciudad Real, Huelva, Madrid & Toledo (Velasco, 1991); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake in Marismas, Spain (De Ridder, 1962b); Dalhus springs area, E of L. Myvatn; Lake Myvatn, Iceland (De Ridder, 1970); N and W Iceland (De Ridder, 1972); Korea (Turner, 1986); Japanese inland waters (Yamamoto, 1960a); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of river Danube at the German-Austrian border (Donner, 1972); R. Salzach & its tributaries, Austria (Donner, 1970); Sea & rock pools in the Tvärminne Archipelago, S Finland (Björklund, 1972b); Dübener Heide, N Germany (Wulfert, 1960b); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); R. Rijn, Maas, Waal & Yssel; waterschap "De Alm", NL (Dresscher, 1976); Ditches in the saltmarsh of Puerto de Pollensa, Majorca, Spain; brackish waters & salinas of Albufera, Alcudia Bay, Majorca (De Ridder, 1967c); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); Budir & surroundings, Iceland (De Ridder, 1969b); Lake Neusiedlersee, Austria (Donner, 1979); Boom, Belgium (De Ridder, 1986); River Danube (Enaceanu & Brezeanu, 1970); Roscoff, Atlantic coast of Brittany, France (D'Hondt, 1970); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Near water works at Okocim, Poland (Klimowicz, 1975); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967)

- Nearctic region: Illinois, USA (Bērziņš, 1984); NW Canada (Chengalath & Koste, 1987); Colorado, USA (Turner, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Lac Echo, Québec, Canada (Nogrady, 1976); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: India (Sharma & Michael, 1980); Malaysia, Indonesia, India (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); In Fishpond at Barrackpore, W Bengal, India (Michael, 1968); W Bengal, NE India (Sharma, 1979b)

- Australian region: Rivers and creek in Aust. (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); NSW, Aust. (Shiel & Koste, 1979); River Murray, Aust. (Koste, 1979b); NSW, Vic., Tas., in coastal (marine) waters (Koste & Shiel, 1991); Canterbury, New Zealand (Russell, 1960)
- Neotropical region: Prov. San Luis, Jujuy, Tucuman, Santa Fé, Argentina (José de Paggi, 1990); Prov. Jujuy, Argentina (Olivier, 1965); Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1992); River Parana, Argentina (Paggi & José de Paggi, 1974); Bolivia (Iltis *et al.*, 1984); Provinces in NW Argentina (José de Paggi, 1989); Argentina, Paraguay, Peru, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Brazil. First record for the Brazilian Amazonia (Koste, Robertson & Hardy, 1984)
- Antarctic region: Antarctica (Dartnall, 1983; Dartnall & Hollowaday, 1985; Sudzuki, 1988b)
- Cephalodella catellina*** (O.F. Müller), f. *botezati* Rodewald, 1935
- Palaearctic region: Pontic province of Europe (Bērziņš, 1978)
- Cephalodella catellina*** (O.F. Müller), f. *major* (Zawadowski, 1916)
- Palaearctic region: Alkal. Péteri-See, Hungary (Kertesz, 1960); Romania (Rudescu, 1960); Hungarian plain (Bērziņš, 1978); Lake Neusiedlersee, Austria (Donner, 1972d & 1979)
- Cephalodella catellina*** (O.F. Müller), f. *natans* Bērziņš, 1976
- Palaearctic region: Lake Allgunen, Aneboda, Sweden (Bērziņš, 1976); C Eur. mountains (Bērziņš, 1978)
- Cephalodella catellina*** (O.F. Müller), f. *volvocicola* (Zawadowski, 1916)
- Palaearctic region: Italy, Hungarian plain, Pontic province, W, C & E Eur. plains, Baltic province (Bērziņš, 1978); Romania (Rudescu, 1960)
- Cephalodella celeris*** Myers, 1937
- Palaearctic region: C Eur. mountains (Bērziņš, 1978)
- Nearctic region: N America (Bērziņš, 1978)
- Cephalodella clara*** Wulfert, 1944
- Palaearctic region: Iberic peninsula, Alps (Bērziņš, 1978); Shores of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970a); La Roca, N of Barcelona & Arumpruya, S of Barcelona, Spain (Donner, 1970b); Spain: Barcelona (Velasco, 1990)
- Neotropical region: Tropical forest near the coast, 70 km S of Rio de Janeiro, Brazil (Donner, 1980)
- Cephalodella compacta*** Wiszniewski, 1934
- Palaearctic region: Italy, Hungarian plain, E Eur. plain (Bērziņš, 1978); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); ? Garden ponds in Tokyo, Japan (Sudzuki, 1975)
- Cephalodella compressa*** Myers, 1924
- Palaearctic region: C Eur. plain, Baltic province (Bērziņš, 1978); River Ybbarpsån, Sweden (Bērziņš, 1979); C & S Sweden (Bērziņš & Pejler, 1989a, 1989b, 1989c & 1989d)
- Nearctic region: N America (Bērziņš, 1978)
- Cephalodella conica*** Nogrady, 1962
- Palaearctic region: Hungarian plain (Bērziņš, 1978); Bog pond near Budapest, Hungary (Nogrady, 1962)
- Cephalodella conjuncta*** Myers, 1940
- Palaearctic region: C Eur. plain (Bērziņš, 1978)
- Cephalodella crassipes*** (Lord, 1903)
- Palaearctic region: River Ybbarpsån, Sweden (Bērziņš, 1979); C & E Eur. plains, Ireland, UK; Asia Minor (Bērziņš, 1978); River Vistula in the Warsaw area, Poland (Klimowicz, 1981)
- Nearctic region: Canada (Chengalath, 1977); Illinois, USA (Bērziņš, 1984); Laurentian Great Lakes (Stemberger, 1979)
- Cephalodella cyclops*** Wulfert, 1937
- Palaearctic region: River Hase, NW Germany (Koste, 1976b); C Eur. mountains, C & E Eur. plains (Bērziņš, 1978); River Ybbarpsån, Sweden (Bērziņš, 1979)
- Cephalodella decidua*** Rodewald, 1935
- Palaearctic region: Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Carpathes (Bērziņš, 1978)
- Cephalodella deformis*** Donner, 1949
- Palaearctic region: E Balkan (Bērziņš, 1978)
- Cephalodella delicata*** Wulfert, 1937
- Palaearctic region: Lake Neusiedlersee, Austria (Donner, 1979); Romania (Rudescu, 1960); ? Scat Ness, Shetlands (De Smet *et al.*, 1988); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Italy, Alps,

W Balkan, C Eur. mountains, Carpathes, Pontic province, C & E Eur. plains, Baltic prov., NW Russian taiga (Bērziņš, 1978); 3 lakes of Sosnowickie, Poland (Radwan, 1968 & 1969); Sea and rock-pools in the Tärminna archipelago, S Finland (Björklund, 1972a); Dübener Heide, N Germany (Wulfert, 1960a, 1960b, 1961); River Salzach and its tributaries, Austria (Donner, 1970); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964; Donner, 1964); Lake Wallsee and r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed and flowing stretches of river Danube at the German-Austrian border (Donner, 1972); River Danube (Enaceanu & Brezeanu, 1970); Running waters in the Bucegi Mountains, Rom. (Godeanu, 1963b); Small permanent ponds of plateau of Bucegi mountains, Romania (Godeanu, 1969a); Spain: Madrid (Velasco, 1990)

- Nearctic region: Kingston, Ontario, Canada (Nogrady, 1989)

Cephalodella dentata Wulfert, 1937

- Palaeartic region: C Eur. mountains, Carpathes, E Eur. plains (Bērziņš, 1978); Peat bogs Laptici, Bucegi mountains, Rom. (Godeanu, 1970); Running waters in the Bucegi mountains, Rom. (Godeanu, 1963b); Temporary waters in the Bucegi mts., Rom. (Godeanu, 1969a)

Cephalodella derbyi (Dixon-Nuttall & Freeman, 1903)

- Palaeartic region: C Eur. mountains, Carpathes, Pontic province, C & E Eur. plains, Ireland, UK, Iceland (Bērziņš, 1978); Romania (Rudescu, 1960); Dübener Heide, N Germany (Wulfert, 1960a & 1960b); In reed borders of the Danube delta, Rom. (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

Cephalodella dixonnutalli Myers, 1924

- Palaeartic region: C Eur. mountains (Bērziņš, 1978)

Cephalodella donneri Hauer, 1959

- Palaeartic region: C Eur. mountains (Bērziņš, 1978)

Cephalodella dora Wulfert, 1961

- Palaeartic region: Dübener Heide, N Germany (Wulfert, 1961); C Eur. mountains (Bērziņš, 1978)

Cephalodella doryphora Myers, 1934

- Palaeartic region: C & S Sweden (Bērziņš & Pejler, 1987); C & E Eur. plains, Baltic province, Fennoscandia (Bērziņš, 1978); Lake Grote Huisven, Nat. Res. Oisterwijkse vennen, NL (Dresscher, 1976); ? Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella dorystoma Myers, 1934

- Palaeartic region: C Eur. mountains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella elegans Myers, 1924

- Palaeartic region: C Eur. mountains (Bērziņš, 1978)

Cephalodella elongata Myers, 1924

- Palaeartic region: Lake Stråken, Anaboda, Sweden (Bērziņš, 1972); River Ybbarpsån, Sweden (Bērziņš, 1979); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Balaton, Hungary (Zankai, 1968); Hungarian plain, C Eur. plain, Baltic province (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella epitedia (Harring & Myers, 1924)

- Palaeartic region: Romania (Rudescu, 1960); Pontic province, C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella eudelicata Wulfert, 1961

- Palaeartic region: Dübener Heide, N Germany (Wulfert, 1961); C Eur. plain (Bērziņš, 1978)

Cephalodella euderbyi Wulfert, 1940

- Palaeartic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); C Eur. mountains & plains, N Sweden (Bērziņš, 1978)

- Australian region: Creek in Vic, Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985); Single unverified record from Boar's Lagoon, Vic. Not seen in our material (Koste & Shiel, 1991)

Cephalodella euknema Myers, 1934

- Palaeartic region: Rivers Maas, Rijn, Waal & Yssel, NL (Dresscher, 1976)

Cephalodella eva (Gosse, 1886)

- Palaeartic region: Lake Bodensee, near Konstanz (Koch-Althaus, 1962); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963); River Ybbarpsån, Sweden (Bērziņš, 19822); Lake Balaton, Hungary (Zankai, 1968; Zankai & Ponyi, 1971a); Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c, 1989d); Romania (Rudescu, 1960); Darnsee near Epe, NW Germany (Koste, 1962);

Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Peat bogs in the "Massif Central", France (Batut, 1965); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1968 & 1970); N Iceland (De Ridder, 1972); Dübener Heide, N Germany (Wulfert, 1961); Japanese inland waters (Yamamoto, 1960a); In periphyton of mosses and *Myriophyllum*, in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970); Lac Léman, Fr./CH (Balvay & Laurent, 1981); In the pelagic zone of Lake Nobel, Ukraina (Polishchuk, 1991); Karelian inland waters, R.F. (Kutikova, 1965); In reed borders of the Danube delta, Rom. (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Lao-shan mountains, China (Wulfert, 1968); Stechlin Lake, Germany (Ronneberger & Schönborn, 1985); Spain: Gerona (Velasco, 1990)

- Nearctic region: NE Canada (Newfoundland & Labrador) (Chengalath & Koste, 1983); Illinois & Kentucky, USA (Bērziņš, 1978); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Par Pond, S Carolina, USA (Oden, 1979)

- Australian region: Creek and river in Aust. (Bērziņš, 1982); Swamp near Dunedin, South Island, New Zealand (Bērziņš, 1982a); Vic, Aust. (Koste & Shiel, 1980c); Rare; from a billabong near Eildon, Vic; Tas. (Koste & Shiel, 1991); Wellington, New Zealand (Russell, 1960)

- Neotropical region: Brazil (Koste & José de Paggi, 1982)

Cephalodella evabroedi De Smet, 1988

- Palaeartic region: Bjørnøya (Bear Island), Svalbard (De Smet, 1988)

Cephalodella exigua (Gosse, 1886)

- Palaeartic region: Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez & Dévaux, 1985); Japanese inland waters (Yamamoto, 1960a); In periphyton of mosses & *Myriophyllum*, Danube and in some brooks of the Alps, Austria in the (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970); R. Maas, Rijn, Waal & Yssel; Nat. Res. "Het Hol" near Kortenhoef, NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1979); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog La Godivelle, Puy-de-Dôme, France (Francez, 1984c); Oisterwijkse vennen, NL (De Graaf, 1960); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of river Odra, Poland (Klimowicz, 1979); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Bog pond near Budapest, Hungary (Nogrady, 1962); Lake Zürichsee, CH (Nipkow, 1961); R. Moldova, tributary to the Danube, Rom. (Prunescu-Arion, 1968); In reed borders of the Danube delta, Rom. (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Spain: Barcelona & ? Ciudad Real (Velasco, 1990); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973); ? La Mancha, Cast., Spain (Armengol *et al.*, 1975); River Ybbarpsån, Sweden (Bērziņš, 1979); Finland (Eriksen, 1969); Romania (Rudescu, 1960); Asiatic Turkey (Dumont & De Ridder, 1987); Croatia (ex-Yugoslavia) (Erben, 1987); Nat. Res. Jursky Sur, CSR (Hudec, 1978); L. Kisajno, Mazurian Lakeland, Poland (Klimowicz, 1964); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Lake Alfsee, NW Germany (Koste & Poltz, 1987); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1987); Kiev reservoir, R.F. (Polishchuk, 1987); Lake Balaton, Hungary (Zankai, 1968); N & C Iceland (De Ridder, 1970 & 1972)

- Nearctic region: Canada (Chengalath, 1977); ? 9 mountain lakes in W Canada (Anderson & De Henau, 1980); Illinois, USA (Bērziņš, 1984); Kingston, Ontario, Canada (Nogrady, 1989)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989)

- Australian region: Vic, Aust. (Shiel & Koste, 1985); Tasmania (Koste & Shiel, 1987); Common in r. Murray (Vic) billabongs in spring. Tasmania (Koste & Shiel, 1987); Christchurch, New Zealand (Russell, 1960)

- Neotropical region: Brazil (Koste & José de Paggi, 1982); Near Concepcion, Paraguay (Koste, 1986b)

Cephalodella fluviatilis (Zawadowski, 1926)

- Palaeartic region: Pontic province & E Eur. plains (Bērziņš, 1978)

Cephalodella fluviatilis (Zawadowski, 1926), f. *minor* Donner, 1978

- Palaeartic region: Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

Cephalodella forceps Donner, 1949

- Palaeartic region: River Hase, NW Germany (Koste, 1970a & 1976b); Lake Alfsee, NW Germany (Koste & Poltz, 1987); C Eur. mountains & plains (Bērziņš, 1978); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

Cephalodella forficata (Ehrenberg, 1832)

- Palaeartic region: River Klyas'ma, R.F. (Bogoslawski, 1961); Coast of S Finland (Eriksen, 1969);

Romania (Rudescu, 1960); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); River Hase, NW Germany (Koste, 1976b); All over Europe; Caucasus. Cosmopolitan (Bērziņš, 1978); River Grabia basin, Poland (Pawłowski, 1968 & 1970); Lake Balaton, Hungaria (Zankai, 1968); N Iceland (De Ridder, 1972); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Shores of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Nat. Res. "Het Hol" near Kortenhoeve & prov. Drenthe, NL (Dresscher, 1979); Lake Neusiedlersee, Austria (Donner, 1979); River Danube (Enaceanu & Brezeanu, 1970); Lakes of the Black Sea shore (Godeanu, 1970b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Small water bodies in the Mikolajskie area, Poland (Klimowicz, 1967); Ponds of Oltina, SE Dobrogea, Rom. (Popescu-Gorj & Costea, 1961); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); River Volga, R.F. (Mordukhai-Boltovskoi, 1979)

- Nearctic region: Canada (Chengalath, 1977); Arctic N America (Chengalath & Koste, 1989)

- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a)

- Australian region: NSW & Qld, Aust. (Shiel & Koste, 1979); Rare; NSW, Qld, Tas. (Koste & Shiel, 1991); Waiholo Lake & Maheno, New Zealand (Russell, 1960)

- Neotropical region: Paraguay, Brazil, Argentina, Panama (Koste & José de Paggi, 1982); Panama (Collado *et al.*, 1984)

- Antarctic region: Antarctica (Dartnall & Hollowday, 1985)

Cephalodella forficata (Ehrenberg), f. *macrura* Wiszniewski, 1936

- Palaearctic region: Italy, Carpathes, E Eur. plains (Bērziņš, 1978); Running waters in the Bucegi mountains, Rom. (Godeanu, 1963b); Temporary waters, small permanent ponds & marshy zones upon plateau of Bucegi mountains, Romania (Godeanu, 1969a); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

Cephalodella forficula (Ehrenberg, 1832)

- Palaearctic region: C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Alkal. Péteri-See, Hungary (Kertész, 1960); Romania (Rudescu, 1960); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Darnsee near Epe, NW Germany (Koste, 1962); Lake Bodensee, near Konstanz (Koch-Althaus, 1962); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Heiluntian province, China (Bogosłowski, 1962); River Ybbarpsån, Sweden (Bērziņš, 1979); Afghanistan (Bērziņš, 1961); Coast of S Finland (Eriksen, 1969); Lake Orog-nur, Gobi desert, Mongolia (Koste & Wulfert, 1964); Engelbergs Moor, near Druchhorn, Germany (Koste, 1965); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1961); Island Hopen, Svalbard Archipelago (De Smet, 1990); River Grabia basin, Poland (Pawłowski, 1973); Reservoir Sedlice near Zeliv, Bohemia, CSR (Sladeckova, 1960 & 1962); Lake Balaton, Hungary (Zankai, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Upper Sambre river & pond at Landelies, B. (Daems & Dumont, 1973); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pond in Paris suburb, France (Pourriot, 1965); Pond in Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Lago Trasimeno, Italy (Taticchi, 1968); Tap water, Gent, Belgium (De Ridder, 1992); Spain: Barcelona, Gerona, Madrid (Velasco, 1990); Dübener Heide, Germany (Wulfert, 1960b & 1961); Japanese inland waters (Yamamoto, 1960a); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of river Danube at the German-Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); R. Rijn, Maas, Waal & Yssel, NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Godeanu, 1970b); Landelies & Lobbes, Belgium (De Ridder, 1986); Lakes of the Black Sea shore (Godeanu, 1970b); Small water bodies in the Mikolajskie area, Poland (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); Bog pond near Budapest, Hungary (Nogrady, 1962); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); In reed borders of the Danube delta, Rom. (Rudescu, 1968); Peat bogs of the Poiana Stampei, Bukowina, Romania (Rudescu, 1966)

- Nearctic region: Laurentian Great Lakes (Stemberger, 1979); Bay of Quinte, L. Ontario, Canada (Nogrady, 1988); Par Pond, S Carolina, USA (Oden, 1979); Canada (Chengalath, 1977); Illinois, Kentucky & Missouri, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Lakes at Santee, California, USA (Nogrady, 1982); Lac Echo, Québec, Canada (Nogrady, 1976); Fayetteville, Onondaga Co, NY, USA (Jackson, 1972); Experimental ponds, C Florida, USA (Fry & Osborne, 1980)

- Oriental region: 2 Kumaun Himalayan Lakes, UP, India (Sharma & Pant, 1984 & 1985); L. Ranu Lamongau, Indonesia (Green *et al.*, 1976); India (Sharma & Michael, 1980); Andhra Pradesh, S India (Dhanapathi, 1985); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Fernando, 1980a); Taiwan, Thailand, Indonesia, India, Sri Lanka, Philippines (Sudzuki, 1989); Bung-Barapet, C Thailand (Koste,

- 1975a); Sri Lanka: in ponds (Chengalath, Fernando & Koste, 1973); Impoundment Kinda, C Burma (Koste & Tobias, 1990); Panjab State, India (Sharma & Sharma, 1984); W Bengal, N India (Sharma, 1979b)
- Australian region: Creek, river & mt. Buffalo, Aust. (Bērziņš, 1982); SW Aust. (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1979); NSW, Qld & W Aust. (Shiel & Koste, 1979); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Pancontinental in Aust. (Koste & Shiel, 1991); Mt. Cook & Christchurch, New Zealand (Russell, 1960)
- Neotropical region: Galapagos Islands (De Smet, 1987 & 1989); Ecuador: Oriente & Costa (Koste & Böttger, 1989); Paraguay, Brazil, Argentina, Surinam & Panama (Koste & José de Paggi, 1982); Varzea near Santarem, Brazil (Koste, 1974b); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Near Panguana, Peru (Koste, 1988b); Near Concepcion, Paraguay (Koste, 1986b); Prov. Rio Negro & Santa Fé, Argentina (José de Paggi, 1990); Brokopondo Lake, Surinam (Leentvaar, 1979); Santa Cruz, Galapagos Islands (Segers, 1991a); Oriente, Sierra & Costa, Ecuador (Koste & Böttger, 1992)
- Cephalodella friebei*** Koste, Robertson & Hardy, 1984
- Neotropical region: Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984)
- Cephalodella gibba*** (Ehrenberg, 1832)
- Palaearctic region: Lake Bodensee near Konstanz (Koch-Althaus, 1962); ? Lake Myvatn, Iceland (Adalsteinsson, 1974); Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Neunzehnhainer Talsperre, Germ. (Althaus, 1976); River Klyas'ma, R.F. (Bogoslawski, 1961); Heiluntian prov., China (Bogoslawski, 1962); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1961); Skopun (Haimara Halsavatn) Faröer (De Smet *et al.*, 1988a); Coast of S Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); Slovenia, ex-Yugoslavia (Markic, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Croatia, ex-Yugoslavia (Erben, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); District Ostrava, CSR (Dvorakova, 1960b); Romania (Rudescu, 1960); C Finland (Eloranta, 1982b); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Nat.Res. Jursky Sur, CSR (Hudec, 1978); Near Asperg, Württemberg, Germ. (Klement, 1960); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); L. Mikolajkie, Mazurian lakeland, Poland (Klimowicz, 1972a); In activated sludge, Warsaw, Poland (Klimowicz, 1972b); Alkal. Péteri-See, Hungary (Kertesz, 1960); N Swedish Lapland (Pejler, 1962a); Edgeøya, Svalbard (De Smet *et al.*, 1988d); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Lake Balaton, Hungary (Zankai & Ponyi, 1970); River Loire, France (Lair, 1980); Tap water, Gent, Belgium (De Ridder, 1992); Canal of river Odra, Poland (Klimowicz, 1979); Near water works at Okocim, Poland (Klimowicz, 1975); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); R. Bistritza and its tributaries, Romania (Miron, 1960); River & valley in the Tatra mountains, Poland (Madalinski, 1961); Karelian inland waters, R.F. (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); E. Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); Lough Neagh, N Ireland (Andrew & Fitzsimons, 1982); Pool in Fontainebleau forest, Ile-de-France, Fr. (Pourriot, 1976); Pond "Heinrichweiher", Bonn, Germany (Reck, 1981); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); R. Oltet & its principal tributaries, Romania (Rogoz, 1972); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew area peat bogs, Poland (Radwan, 1974); Hamburg area, Germany (Rühmann, 1961); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pools & peat bogs in the Paris suburb, France (Pourriot, 1965); Pond in Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Garden Ponds in Tokyo, Japan (Sudzuki, 1975); Mt. Fuji, area, Japan (Sudzuki, 1978a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Scandinavian coastal waters (Thane-Fenchel, 1968); Serbian section of river Danube (Zivkovic, 1987); Near Ichnun & Tai-shan mountain, China (Wulfert, 1968); Spain: Barcelona, Castellon, Ciudad Real, Gerona, Pontovedra, Sevilla; Balears: Ibiza; Portugal: Beja (Velasco, 1990); R. Vistula in the Warsaw area, Poland (Klimowicz, 1981); R. Salzach & its tributaries, Austria (Donner, 1970); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Peat bogs Chambedaze et la Godivelle, Francez, 1988 & 1984c); Puy-de-Dôme, France (Francez & Dévaux, 1985); Korea (Turner, 1986); Japanese inland waters (Yamamoto, 1960a); Lough Erne system, NW Ireland (Gibson *et al.*, 1980); Artificial lake near Köln, Germany (Trahms, 1972); In periphyton of mosses and *Myriophyllum* in the Danube & in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Lake Neusiedlersee, Austria (Donner, 1979); All over Belgium (De Ridder, 1986); Fagne de la Mochette, Samrée, Belgium (De Ridder, 1980); Interstitial fauna of the Elbe estuary,

Germany (Riemann, 1966); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); Peat bogs in the Auvergne, France (Francez, 1981); Roscoff, Atlantic coast of Brittany, France (D'Hondt, 1970); Running waters in the Bucegi mts., Romania (Godeanu, 1963a); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Canal Leeds-Liverpool, UK (Galliford, 1960b); Temporary waters, small permanent ponds & marshy zones from plateau of the Bucegi mountains, Romania (Godeanu, 1969a); Oisterwijkse vennen, NL (De Graaf, 1960); River Cernia basin, Romania (Brezeanu & Marinescu-Popescu, 1964); Minorca, Spain (de Manuel, 1990); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Lake Orog-nur, Gobi Desert, Mongolia (Koste & Wulfert, 1964); Azibo reservoir, near Porto, Portugal (Vascoucelos, 1990); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Peat bogs in the "Massif Central", France (Batut, 1965); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976); Volga river & Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Courland Spit, R.F. (Zhadin *et al.*, 1972); Medium-size rivers, tributary to Kiev reservoir, and reservoir itself (Polishchuk, 1987); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); Island Hopen, Svalbard Archipelago (De Smet, 1990); Lower Silesia, Poland (Pawlowski, 1960); River Grabia basin, Poland (Pawlowski, 1960, 1968, 1970 & 1973); Rügener, Hiddenseer & Darsser Boddengewässer, NE Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Canals in Hran area, CSR (Terek, 1990c); Mountain Fuji, Japan (Sudzuki, 1971); Surtsey, Iceland (Holmberg & Pejler, 1972); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); River Lieve, Gent, Belgium (De Smet & Evens, 1970); R. Meuse Liégeoise, Belgium (Baiverlin, 1984); N,W & C Iceland (De Ridder, 1970 & 1972); Cine Stream, Turkey (Emir, 1991); Southwest islands of Japan (Sudzuki *et al.*, 1992); Dübener Heide, N Germany (Wulfert, 1960a, 1960b, 1961); Pool at Fontainebleau, near Paris, France (Pourriot, 1976); Water works Jungfernheide, Berlin, Germany (Ritterbusch, 1974)

- Nearctic region: Silver Lake, Adirondack mountains, NY State (Siegfried, 1991); Colorado, USA (Turner, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Cape Herschell, Ellesmere Island, NWT, Can. (Nogrady & Smoll, 1989); Illinois River, USA (Brown *et al.*, 1989); Newfoundland & Labrador, NE Canada (Chengalath & Koste, 1988); NW Canada (Chengalath & Koste, 1987); Canada (Chengalath, 1977); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Northern Michigan inland lakes (Stemberger, 1990); Bay of Quinte, L. Ontario, Canada (Nogrady, 1988); Lakes at Santee, California, USA (Nogrady, 1982); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. Park, Canada (Nogrady, 1980); Laurentian Great Lakes (Stemberger, 1974); Crater Lake, Arizona, USA (Green, 1986); Papoose Lake & Jasper Lake, W North America (Thomasson, 1962)

- Oriental region: Suray Kund, India (Sarkar & Rai, 1964); Storage reservoir Ajwa, near Baroda, India (Wulfert, 1966); 2 Kumaun Himalayan lakes, India (Sharma & Pant, 1984 & 1985); Swamp near Mengala, Sumatra (Bērziņš, 1982a); Kathmandu, Nepal (Turner, 1987); India (Sharma & Michael, 1980); ? River Yamuna, India (Rai, 1974; Novotna-Dvorakova, 1963); Sri Lanka (Fernando, 1980a); Taiwan (Sudzuki, 1988); Taiwan, Thailand, Malaysia, Indonesia, India, Sri Lanka (Sudzuki, 1989); Bung-Borapet, C Thailand (Koste, 1975a); Kalimantan (Borneo), Indonesia (Koste, 1988a); ? Taiwan. Cosmopolitan (Sudzuki, 1991); Sri Lanka: common in ponds and lakes (Chengalath, Koste & Fernando, 1973); W & S Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990); W Bengal, NE India (Sharma, 1979a); Panjab State, NW India (Sharma & Sharma, 1984)

- Australian region: NSW, Qld, Vic. & S Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); In many localities in Australia (Bērziņš, 1982); Swamp near L. Hayes, S Island, New Zealand SW Aust. (Bērziņš, 1982a; Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983; Tait, Shiel & Koste, 1984); Eurytopic, pancontinental in Australia. Abundant in acid waters in Tasmania (Koste & Shiel, 1991); Several localities in New Zealand (Russell, 1960)

- Neotropical region: Mato Grosso, Brazil (Turner & Da Silva, 1992); Lake Cocibola, Nicaragua (Moreno *et al.*, 1992); Oriente, Sierra & Costa, Ecuador (Koste & Böttger, 1989 & 1992); Surinam (Leentvaar, 1975); Brokopondo Lake, Surinam (Leentvaar, 1979); Prov. Santiago del Estero, Chaco & Santa Fé, Argentina (José de Paggi, 1990); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Provinces in NW Argentina (José de Paggi, 1989); Galapagos Islands (De Smet, 1987 & 1989); Amazonia, Brazil (Koste, 1972f); Varzea near Santarem, Amazonia, Brazil (Koste, 1974b); Paraguay, Brazil, Venezuela, Argentina, Antilles, Peru, Surinam (Koste & José de Paggi, 1982); Near Panguana, Peru (Koste, 1988b); Near Concepcion, Paraguay (Koste, 1986b); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia,

- Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Antilles françaises (Pourriot, 1975); Caribbean Islands & Panama (Collado *et al.*, 1984)
- Antarctic region: Potter peninsula, Antarctica (José de Paggi, 1982; José de Paggi & Koste, 1982a); Islands Signy, Antarctica (Dartnall, 1977); Antarctica (Dartnall, 1983; Dartnall & Hollowday, 1985; Sudzuki, 1988b); Potter peninsula, 25 km de Mayo Island, South Shetland Islands, Antarctica (Paggi, 1986); Antarctica & Subantarctica (José de Paggi & Koste, 1984)
- Cephalodella gibba*** (Ehrenberg), f. *microdactyla* Koch-Althaus, 1963
- Palaeartic region: Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Rock pools in S Finland (Björklund, 1972a); Sierra Nevada, Spain (Morales-Baquero, 1987); Alpine Lakes in the Sierra Nevada, Spain (Morales-Baquero *et al.*, 1989); C Eur. plains (Bērziņš, 1978); Spain: Granada & Madrid (Velasco, 1990)
 - Nearctic region: Mesotrophic fen in Newfoundland, Canada (Bateman & Davis, 1980)
 - Australian region: Tasmania (Koste & Shiel, 1986b); Near Scotts Peak Dam, Tas. (Koste & Shiel, 1991)
- Cephalodella gibboides*** Wulfert, 1951
- Palaeartic region: Romania (Rudescu, 1960); C & S Sweden (Bērziņš & Pejler, 1987); Achmer Grasmoor, NW Germany (Koste, 1968b); C Eur. mountains, Pontic prov., C & E Eur. plains (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1960a & 1960b)
- Cephalodella gigantea*** Remane, 1933
- Palaeartic region: Lake Stechlinsee, Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Holstein; C Germany; N Ukraina; R.F.; Fontainebleau, France; N Italy (Koste, 1985a); W, C & E Eur. plains (Bērziņš, 1978); River Grabia basin, Poland (Pawłowski, 1970); Pool in Fontainebleau forest, Paris suburb, Fr. (Pourriot, 1976)
 - Oriental region: Delhi, India (Sarma, 1988)
 - Neotropical region: Antilles: Guadeloupe (Koste & José de Paggi, 1982); Near Panguana, Peru (Koste, 1988b); Varzea island near Manaos, Brazil (Koste, 1985a); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990)
- Cephalodella gisleni*** Bērziņš, 1953
- Australian region: SW Aust. (Koste, Shiel & Brock, 1983); S Aust. & W Aust. (Shiel & Koste, 1979); Murray river at Mannum, S Aust. (Shiel, 1979); S Australia (Koste & Shiel, 1991)
- Cephalodella glandulosa*** Koch-Althaus, 1962
- Palaeartic region: Lake Stechlinsee, Brandenburg, N Germany (Koch-Althaus, 1962 & 1963; Ronneberger & Schönborn, 1985); C Eur. plain (Bērziņš, 1978)
- Cephalodella globata*** (Gosse, 1887)
- Palaeartic region: Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); Italy, C Eur. mountains, Carpathes, Hungarian plain, Pontic prov., C & E Eur. plains, Baltic province, Ireland, UK (Bērziņš, 1978); River Grabia basin, Poland (Pawłowski, 1960); Romania (Rudescu, 1960); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Running waters & marshy zones, Bucegi mts. Romania (Godeanu, 1963b & 1969a); Lake Neusiedlersee, Austria (Donner, 1979)
 - Nearctic region: Arctic N America (Chengalath & Koste, 1989)
 - Oriental region: Form near C.gl.: lakelet Tan Daha, valley of Kathmandu, Nepal (Daems & Dumont, 1974)
 - Neotropical region: Oamaru, New Zealand (Russell, 1960)
- Cephalodella glypta*** Wulfert, 1951
- Palaeartic region: C Eur. mountains (Bērziņš, 1978)
- Cephalodella gobio*** Wulfert, 1937
- Palaeartic region: Alps, C Eur. mountains, Carpathes, C & E Eur. plains (Bērziņš, 1978); R. Salzach & its tributaries, Austria (Donner, 1970); In periphyton of mosses & *Myriophyllum*, in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shores of dammed & flowing stretches of river Danube at the German-Austrian border (Donner, 1972); Lake Neusiedlersee, Austria (Donner, 1979); River Danube (Enaceanu & Brezeanu, 1970); Running waters in the Bucegi mts., Romania (Godeanu, 1963b); Temporary waters in the Bucegi mts., Romania (Godeanu, 1969a); R. Bistritza & its tributaries, Romania (Miron, 1960); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a)
- Cephalodella gracilis*** (Ehrenberg, 1832)
- Palaeartic region: River Grabia, Poland (Pawłowski, 1960); Lake Balaton, Hungary (Zankai, 1968); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a); Surtsey, Iceland (Holmberg & Pejler, 1972); R. Salzach & its tributaries, Austria (Donner, 1970); Dübener Heide, N Germany (Wulfert, 1960a & 1960b); Peat bog Laptici, Bucegi

- mountains, Rom. (Godeanu, 1970); Temporary waters, Bucegi mountains, Rom. (Godeanu, 1969a); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Lake Ohrid, Balkan peninsula (Stankovic, 1960); Lake Stechlinsee, Germany (Ronneberg & Schönborn, 1985); Spain: Barcelona, Gerona, Guipuzcoa, Pontevedra, Zamora (Velasco, 1990); Gent, tap water; Nat. Res. "Ronde Put", Postel, Belgium (De Ridder, 1992); Lake Bodensee near Konstanz (Koch-Althaus, 1962 & 1963); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1961); Sea & rock pools in S Finland (Björklund, 1972a); Finland (Eriksen, 1969); Croatia, ex-Yugoslavia (Erben, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Romania (Rudescu, 1960); In activated sludge, Warsaw, Poland (Klimowicz, 1972b); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); River Danube (Enaceanu & Brezeanu, 1970); River Ybbarpsån, Sweden (Bērziņš, 1979); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Peat bogs in the "Massif Central", France (Batut, 1965); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); River & valley in the Tatra mountains (Madalinski, 1961); Lakes of the Black Sea shore (Godeanu, 1970b); Nat. Res. "Het Hol" near Kortenhoeft, NL; R. Maas, id. (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1979); Courland Spit, R.F. (Zhadin *et al.*, 1972); All over Europe; Caucasus, Caspian area. Cosmopolitan (Bērziņš, 1979); In periphyton of mosses & *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972)
- Nearctic region: Arctic N America (Chengalath & Koste, 1989); Canada (Chengalath, 1977); Illinois & Missouri, USA (Bērziņš, 1984); Laurentian Great Lakes (Stemberger, 1979)
 - Australian region: In many localities in Aust. (Bērziņš, 1982); Swamp near Dunedin, S Island, New Zealand (Bērziņš, 1982a); Vic, Aust. (Shiel & Koste, 1985); S Tasmania & Vic, Aust. (Koste, Shiel & Tan, 1988); Tasmania & Wodonga, Vic, Aust. (Koste & Shiel, 1991); Canterbury, New Zealand (Russell, 1960)
 - Neotropical region: Peru, Brazil, Surinam, Panama (Koste & José de Paggi, 1982); Near Panguana, Peru (Koste, 1988b); Brokopondo Lake, Surinam (Leentvaar, 1979); Costa, Ecuador (Koste & Böttger, 1992); Panama (Collado *et al.*, 1984)
- Cephalodella gracilis*** (Ehrenberg), f. *lenticulata* Wulfert, 1938
- Palaearctic region: C Eur. mountains, Pontic province (Bērziņš, 1978); Kläranlage (sewage ponds) Traiskirchen, S of Vienna (Weninger, 1971)
- Cephalodella gracilis*** (Ehrenberg), f. *sigmoides* Wulfert, 1951
- Palaearctic region: C Eur. mountains (Bērziņš, 1978); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); Peat bog Chambedaze & La Godivelle, *ibid.* (Francez, 1988)
- Cephalodella graciosa*** Wulfert, 1956
- Palaearctic region: C Eur. mountains (Bērziņš, 1978)
- Cephalodella gusuleaci*** Rodewald, 1935
- Palaearctic region: C Eur. mountains & plains (Bērziņš, 1978); Romania (Rudescu, 1960)
- Cephalodella hiulca*** Myers, 1924
- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Romania (Rudescu, 1960); Carpathes, C Eur. plains (Bērziņš, 1978); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)
 - Nearctic region: N America (Bērziņš, 1978)
 - Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989)
- Cephalodella hollowdayi*** Koste, 1986
- Neotropical region: Discovered in the Parana, Paraguay. Found also near Concepcion, Paraguay (Koste, 1986b); Near Panguana, Peru (Koste, 1988b)
- Cephalodella horni*** Wulfert, 1960
- See: *C. hyalina* Myers, 1924
- Cephalodella hoodi*** (Gosse, 1996)
- Palaearctic region: Prov. Drente, NL (Dresscher, 1976); Lake Stechlinsee, Brandenburg, N Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Ybbarpsån, Sweden (Bērziņš, 1979); Finland (Eriksen, 1969); Croatia, ex-Yugoslavia (Erben, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); ? Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Delta of river Danube, Romania (Zinevici & Teodorescu, 1990); Romania (Rudescu, 1960); River Hase, NW Germany (Koste, 1976b); All over Europe. Cosmopolitan (Bērziņš, 1978); Lower Silesia, Poland (Pawlowski, 1960); River Grabia basin, Poland (Pawlowski, 1970 & 1973); Lake Balaton, Hungary (Zankai, 1968); Japanese inland waters (Yamamoto, 1960a); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a); In periphyton of mosses and *Myriophyllum* in the Danube & in some brooks of the Alps, Austria (Donner,

1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed & flowing stretches of the Danube at the German-Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970); Lake Neusiedlersee, Austria (Donner, 1979); River Danube (Enaceanu & Brezeanu, 1970); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); In reed borders of the Danube delta, Romania (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Spain: Madrid (Velasco, 1990)

- Nearctic region: Wisconsin, USA (Bērziņš, 1984)

- Australian region: Creek and river in Australia (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985); Gippsland, Vic, Aust. & Mt. Field Nat. Park, Tas. (Koste & Shiel, 1991)

Cephalodella hoodi (Gosse), f. *grandis* Wulfert, 1937

- Palaearctic region: In stagnant & flowing waters, NW Germany (Koste, 1970a); C Eur. mountains and plains (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1961)

Cephalodella hyalina Myers, 1924

- Palaearctic region: C & E Eur. plains, C Eur. mountains, Carpathes, Baltic province (Bērziņš, 1978); Romania (Rudescu, 1960); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); River Grabia basin, Poland (Pawlowski, 1960 & 1973); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982, 1987 & 1988); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Dübener Heide, N Germany (Wulfert, 1960a)

- Nearctic region: N America (Bērziņš, 1978); Mesotrophic fen in Newfoundland, Canada (Bateman & Davis, 1980)

Cephalodella incila Wulfert, 1937

- Palaearctic region: Dübener Heide, N Germany (Wulfert, 1960a & 1960b); Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Coast of S Finland (Eriksen, 1969); Croatia, ex-Yugoslavia (Erben, 1987); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Alps, C Eur. mountains, C & E Eur. plains, Baltic province, NW Russian taiga (Bērziņš, 1978); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed & flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970)

- Nearctic region: NE Canada (Chengalath & Koste, 1983)

Cephalodella innesi Myers, 1924

- Palaearctic region: C Eur. mountains (Bērziņš, 1978); Balearic archipelago, Spain (de Manuel *et al.*, 1992)

Cephalodella inquila Myers, 1924

- Palaearctic region: River Hase, NW Germany (Koste, 1976b); C Eur. plains & Baltic province (Bērziņš, 1978)

- Nearctic region: Newfoundland & Labrador, Canada (Chengalath & Koste, 1983)

Cephalodella intuta Myers, 1924

- Palaearctic region: C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); ? Coast of S Finland (Eriksen, 1969); Edgeøya, Svalbard (De Smet *et al.*, 1988); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor near Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Italy, Alps, W Balkan, C Eur. mountains & plains, Baltic province & NW Russian taiga (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1960a, 1960b & 1961); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); R. Salzach and its tributaries, Austria (Donner, 1970); Japanese inland waters (Yamamoto, 1960a); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); id.+Nat. Res. "Het Hol" near Kortenhoef, NL (Dresscher, 1976); Lao-shan mountains, China (Wulfert, 1968)

- Nearctic region: N America (Bērziņš, 1978); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Northern Michigan inland lakes (Stemberger, 1990)

- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia (Sudzuki, 1989); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985)

- Australian region: NT, Aust. Magela Creek floodplain (Koste, 1981b); Tasmania (Koste & Shiel, 1986b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985); Rare. NT, Vic, Tas (Koste & Shiel, 1991); South Canterbury, New Zealand (Russell, 1960)

- Neotropical region: Amazonia, Brazil (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982); ? Galapagos Islands (De Smet, 1987 & 1989)

Cephalodella jakubski Wiszniewski, 1953

- Palaearctic region: E Eur. plains (Bērziņš, 1978)

Cephalodella labiosa Wulfert, 1940

- Palaearctic region: C Eur. plains (Bērziņš, 1978); Peat bogs in the Auvergne, France (Francez, 1981); Peat bogs Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984; Francez & Dévaux, 1985); Dübener Heide, N Germany (Wulfert, 1960a & 1961); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

Cephalodella laisi Hauer, 1935

- Palaearctic region: Peat bog Laptici, Bucegi mountains, Romania (Godeanu, 1970); C Eur. mountains & plains, Carpathes, Baltic prov. (Bērziņš, 1978)

Cephalodella lepida Myers, 1934

- Palaearctic region: Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Carpathes, C Eur. plains, Iceland (Bērziņš, 1978)

Cephalodella licina Wulfert, 1961

- Palaearctic region: Dübener Heide, N Germany (Wulfert, 1961); C Eur. plain (Bērziņš, 1978)

Cephalodella limosa Wulfert, 1937

- Palaearctic region: Romania (Rudescu, 1960); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Ybbarpsån, Sweden (Bērziņš, 1979); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Alps, C Eur. mountains, Pontic province, C & E Eur. plains, Baltic province (Bērziņš, 1978); In reed borders of the Danube delta, Romania (Rudescu, 1968)

Cephalodella lindamaya Koste & Shiel, 1986

- Australian region: Stock dam near Copping, Tasmania (Koste & Shiel, 1986b); Tasmania (Shiel, Koste & Tan, 1989); Endemic in Tas. Stock dam in Copping, E Tas. (Koste & Shiel, 1991)

Cephalodella lipara Myers, 1924

- Australian region: Martin's Bay, New Zealand (Russell, 1960)

Cephalodella macrodactyla (Stenroos, 1898)

- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1978); Coast of S Finland (Eriksen, 1969); Pontic province, C Eur. plain, Baltic province, NW Russian taiga (Bērziņš, 1978)

- Nearctic region: ? Wisconsin, USA (Bērziņš, 1984); Bay of Quinte, Lake Ontario, Canada (Nogradý, 1988)

Cephalodella marina Myers, 1924

- Palaearctic region: Romania (Rudescu, 1960); Pontic province (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella megaloccephala (Glascott, 1893)

- Palaearctic region: River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Sea & rock pools in S Finland (Björklund, 1972a); ? Coast of S Finland (Eriksen, 1969); Lake Vörtjärvi, Estonia (Kutikova & Haberman, 1986); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Kisajno, Mazurian lakes, Poland (Klimowicz, 1964); Lake Bodensee near Konstanz (Althaus, 1962); Romania (Rudescu, 1960); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); River Hase, NW Germany (Koste, 1976b); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Lake Donk, Overmere, Belgium (Coussement, 1976); Courland Spit, R.F. (Zhadin *et al.*, 1972); All over Europe (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1960); Lake Balaton, Hungary (Zankai, 1968); Soviet section of the Danube (Parchuk, 1985); Dübener Heide, N Germany (Wulfert, 1961); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed of flowing stretches in the Danube at the German-Austrian border (Donner, 1972); R. Salzach and its tributaries, Austria (Donner, 1970); R. Maas, Rijn, Waal & Yssel; dune waters on Voorne, NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1979); River Danube (Enaceanu & Brezeanu, 1970); Bog pond near Budapest, Hungary (Nogradý, 1962); Luga district of the Leningrad area, R.F. (Kutikova, 1962b)

- Nearctic region: Arctic N America (Chengalath & Koste, 1989); Laurentian Great Lakes (Stemberger, 1979)

- Australian region: NSW, Aust. (Shiel & Koste, 1985); S Tasmania & NSW, Aust. (Koste & Shiel & Tan, 1988); Wentworth Falls, NSW; St. Marys, Tas.; Wodonga, Vic. (Koste & Shiel, 1991); Christchurch, New Zealand (Russell, 1960)

- Antarctic region: Antarctica (Dartnall & Hollowday, 1985)

Cephalodella megaloccephala (Glascott), f. *compressa* Donner, 1949

- Palaearctic region: Romania (Rudescu, 1960); Courland Spit, R.F. (Zhadin *et al.*, 1972); Italy, Alps, W Balkan, C Eur. mountains, Hungarian plain, Pontic province, C Eur. plains, Baltic prov., Ireland & UK

(Bērziņš, 1978)

Cephalodella megalcephala (Glascott), f. *rotunda* Donner, 1949

- Palaeartic region: Romania (Rudescu, 1960); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); C Eur. mountains & Pontic province (Bērziņš, 1978)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989); Storage reservoir Ajwa & Prata-pura res., India (near Baroda) (Wulfert, 1966)

Cephalodella megalotrocha Wiszniewski, 1934

- Palaeartic region: Lake Bodensee near Konstanz (Althaus, 1962); C & E Eur. plains (Bērziņš, 1978)

- Neotropical region: Ecuador: Oriente & Sierra (Koste & Böttger, 1989); Ecuador: Sierra (Koste & Böttger, 1992)

Cephalodella melia Myers, 1924

- Nearctic region : N American & C American plains (Bērziņš, 1978)

Cephalodella mineri Myers, 1924

- Palaeartic region: Romania (Rudescu, 1960); Pontic province of Europe (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella minora Wulfert, 1960

- Palaeartic region: Dübener Heide, N Germany (Wulfert, 1960a); C Eur. plains (Bērziņš, 1978); ? Garden ponds in Tokyo, Japan (Sudzuki, 1975)

Cephalodella mira Myers, 1924

- Palaeartic region: Romania (Rudescu, 1960); Aneboda, Sweden (Bērziņš, 1976); C Eur. mountains, Carpathes, Pontic province (Bērziņš, 1978); Hahlener Moor, NW Germany (Koste, 1970a)

- Nearctic region: N America (Bērziņš, 1978); USA (Mt. Desert Island; New Jersey; Wisconsin) (Koste, 1972f)

- Neotropical region: Amazonia, Brazil. Columbia (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Venezuela & Brazil (Koste & José de Paggi, 1982); Mato Grosso, Brazil (Turner & Da Silva, 1992); Sierra & Costa, Ecuador (Koste & Böttger, 1992)

Cephalodella misgurnus Wulfert, 1937

- Palaeartic region: Lake Neusiedlersee, Austria (Donner, 1979); Hortobagy Nat.Park, Hungary (Forro & Ronkay, 1983); Lake Balaton, Hungary (Zankai, 1989); C Eur. mountains, Carpathes, Hungarian plain, C & E Eur. plains, Baltic province (Bērziņš, 1978); Island Hopen, Svalbard Archipelago (De Smet, 1990); Romania (Rudescu, 1960); Southwest Islands of Japan (Sudzuki, 1990); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); River Bistritza & its tributaries, Romania (Miron, 1960); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989); Nimeta water works, near Baroda, India (Wulfert, 1966)

- Australian region: NT, Aust.: Magela Creek floodplain (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985); Single record, Magela Creek, NT (Koste & Shiel, 1991)

- Neotropical region: Provinces in NW Argentina (José de Paggi, 1989); ? Prov. Tucuman, Argentina (José de Paggi, 1990)

Cephalodella misgurnus Wulfert, f. *longidactyla* Varga, 1953

- Palaeartic region: Hungarian plain (Bērziņš, 1978)

Cephalodella modesta Manfredi, 1927

- Palaeartic region: Italy (Bērziņš, 1978)

Cephalodella mucronata Myers, 1924

- Palaeartic region: Lake Stråken in Aneboda, Sweden (Bērziņš, 1972); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Southwest islands of Japan (Sudzuki *et al.*, 1992); Small water bodies, Soviet Karelia, R.F. (Filimonova, 1976); Hungarian plain, C Eur. plains, Baltic province (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978); Illinois, USA (Bērziņš, 1984); Wisconsin, New Jersey & Florida, USA (Koste, 1972f); Canada (Chengalath, 1977)

- Oriental region: India (Sharma & Michael, 1980); Malaysia, Indonesia, India (Sudzuki, 1989); Sumatra (Koste, 1972f); Kalimantan (Borneo), Indonesia (Koste, 1988a); W Bengal, NE India (Sharma, 1979b)

- Australian region: Creek and river in Aust. (Bērziņš, 1982); SW Aust. (Koste, Shiel & Brock, 1983); NSW, Aust. (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Pantropical & subtropical species: Tasmania (Koste & Shiel, 1986b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Ponds in Tasmania (Shiel, Koste & Tan, 1989); New Zealand (Koste, 1972f); NSW, NT, S Aust. Also New Zealand (Koste & Shiel, 1991); Mt. Cook & mt. Rolleston, New Zealand (Russell, 1960)

- Neotropical region: Surinam (Leentvaar, 1975); Lower Orinoco river and its delta, Venezuela (Vasquez & Rey, 1989); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Prov. Chubut, Argentina (José de Paggi, 1990); Varzea near Santarem, Brazil (Koste, 1988b); Brazil, Venezuela, Panama (Koste & José de Paggi, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Near Panguana, Peru (Koste, 1988b); Amazonia, Brazil (Gillard, 1967; Thomasson, 1971; Koste, 1972f); Lago Paroni, Brazil (Koste, 1974a); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Oriente, Ecuador (Koste & Böttger, 1992)

***Cephalodella mus* Wulfert, 1956**

- Palaearctic region: Dübener Heide, N Germany (Wulfert, 1960a & 1960b); C Eur. mountains (Bērziņš, 1978); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982)

- Oriental region: Ricefields in NE Thailand (Heckman, 1979)

***Cephalodella myersi* Wiszniewski, 1934**

- Palaearctic region: Afghanistan (Bērziņš, 1961); UK (Bērziņš, 1978)

- Australian region: Creek in Vic., Aust. (Bērziņš, 1982); Vic., Aust. (Shiel & Koste, 1985)

***Cephalodella myersi* Wiszniewski, f. *ahlstromi* Edmondson & Hutchinson, 1934**

- Oriental region: In a fishpond at Barrackpore, W Bengal, India (Michael, 1968)

***Cephalodella nana* Myers, 1924**

- Palaearctic region: Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); River Ybbarpsån, Sweden (Bērziņš, 1978); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Romania (Rudescu, 1960); Achmer Grasmoor, NW Germany (Koste, 1968b); Peat bogs in the "Massif Central", France (Batut, 1965); C Eur. mountains, Carpathes, C & E Eur. plains, Baltic province (Bērziņš, 1978); Romanian plain, ± 50 km N-NW of Bucarest, Romania (Botosaneanu & Negrea, 1961); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984c & 1988; Francez & Dévaux, 1985); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); Peat bogs in the Auvergne, France (Francez, 1981); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Nat. Res. Oisterwijkse vennen, NL & Nat. Res. "Het Hol" near Kortenhoef; Groote Huisven, NL (Dresscher, 1976); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

- Nearctic region: N America (Bērziņš, 1978); NW Canada (Changalath & Koste, 1987); Lac Echo, Québec, Canada (Nogrady, 1976)

- Australian region: Creek in Vic, Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985); ? Tasmania (Koste & Shiel, 1987); Clunes, Vic, Aust. & Little Pine Lagoon, Tas. (Koste & Shiel, 1991)

- Neotropical region: Island Maraca, Roraima, Brazil (Koste & Robertson, 1990)

***Cephalodella nodosa* Wulfert, 1937**

- Palaearctic region: Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a); Croatia, ex-Yugoslavia (Erben, 1987); C Eur. mountains & plains, E Eur. plains (Bērziņš, 1978)

***Cephalodella obesa* Donner, 1949**

- Palaearctic region: Iberic peninsula (Bērziņš, 1978); Balears (Spain): Ibiza (Velasco, 1990)

***Cephalodella obvia* Donner, 1949**

- Palaearctic region: C Eur. mountains & plains (Bērziņš, 1978); 3 lakes of Sosnowickie, Poland (Radwan, 1968 & 1969)

- Nearctic region: Canada (Chengalath, 1977)

***Cephalodella oxydactyla* Wulfert, 1937**

- Palaearctic region: C Eur. mountains & plains, E Eur. plains, Baltic province (Bērziņš, 1978)

***Cephalodella pachydactyla* Wulfert, 1937**

- Palaearctic region: L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Sea and rock pools in S Finland (Björklund, 1972a); Coast of S Finland (Eriksen, 1969); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Lake Alfsee, NW Germany (Koste & Poltz, 1987); C Eur. mountains & plains, E Eur. plains, NW Russian taiga (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1960a); River Bistritza and its tributaries, Romania (Miron, 1960); Near Sinaia, N of Bucarest, Romania (Rodewald-Rudescu & Godeanu, 1961); ? Tai-shan mt. & Lao-shan mountains, China (Wulfert, 1968)

***Cephalodella pachyodon* Wulfert, 1937**

- Palaearctic region: Romania (Rudescu, 1960); Croatia, ex-Yugoslavia (Erben, 1987); C Eur. mountains & plains, Pontic prov., E Eur. plains (Bērziņš, 1978); River Vistula in the Warsaw area, Poland (Klimowicz, 1981)

***Cephalodella paggia* Koste & Robertson, 1983**

- Neotropical region: Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson &

Hardy, 1984)

Cephalodella panarista Myers, 1924

- Palaearctic region: Romania (Rudescu, 1960); Pontic province, E Eur. plains (Bērziņš, 1978)
- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia & India (Sudzuki, 1989)
- Australian region: NT, Aust. (Koste & Shiel, 1980c); NW Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Billabongs, Magela Creek, NT; r Murray, NSW (Koste & Shiel, 1991); Lake Takapo, New Zealand (Russell, 1960)
- Neotropical region: Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente & Sierra (Koste & Böttger, 1992); Near Panguana, Peru (Koste, 1988b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990)

Cephalodella parasitica (Jennings, 1894)

- Palaearctic region: Italy, W & C Eur. plains (Bērziņš, 1978); Achmer Grasmoor, NW Germany (Koste, 1968b); France & Italy; near Leningrad (R.F.); Uzbekistan; NW Germany (Koste, 1972f)
- Nearctic region: N America (Bērziņš, 1978); Lake Erie, USA (Koste, 1972a); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Laurentian Great Lakes (Stemberger, 1979)
- Australian region: NSW, Aust. (Shiel & Koste, 1985); Single report from Diggers Creek, Mt. Kosciusko. Not seen in our collections. (Koste & Shiel, 1991)

Cephalodella pentaplex Wulfert, 1943

- Palaearctic region: C Eur. mountains & plains, Carpathes (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1961); Pools in the Bucegi mountains, Romania (Godeanu, 1963a); Running waters in the Bucegu mts., Romania (Godeanu, 1963b); Small permanent ponds upon plateau of the Bucegi mountains, Romania (Godeanu, 1969a)

Cephalodella pheloma Myers, 1924

- Palaearctic region: Baltic province of Europe (Bērziņš, 1978)
- Australian region: Mt. Paparoa, S Island, New Zealand (Bērziņš, 1982a); Wellington, New Zealand (Russell, 1960)

Cephalodella physalis Myers, 1924

- Palaearctic region: C Eur. mountains & plains, Baltic province, Boreal highland, N Sweden (Bērziņš, 1978); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976)
- Nearctic region: N America (Bērziņš, 1978); NE Canada (Newfoundland & Labrador) (Chengalath & Koste, 1983); Lac Echo, Québec, Canada (Nogrady, 1982)
- Australian region: Lake Katrine, New Zealand (Russell, 1960)

Cephalodella plicata Myers, 1924

- Palaearctic region: C Eur. mountains & plains, Hungarian plain (Bērziņš, 1978); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); Bog pond near Budapest, Hungary (Nogrady, 1962)
- Nearctic region: N America (Bērziņš, 1978); Lac Echo, Québec, Canada (Nogrady, 1982)
- Australian region: Wellington, New Zealand (Russell, 1960)

Cephalodella poitera Myers, 1934

- Palaearctic region: C Eur. plains (Bērziņš, 1978)
- Nearctic region: N America (Bērziņš, 1978)

Cephalodella prompta Neiswestnova-Shadina, 1935

- Palaearctic region: C & E Eur. plains, Baltic province (Bērziņš, 1978)

Cephalodella psammophila Koch-Althaus, 1962

- Palaearctic region: Lake Stechlinsee, N Brandenburg, Germany (Koch-Althaus, 1962); C Eur. plain (Bērziņš, 1978); ? Lake Stechlinsee (Ronneberger & Schönborn, 1985)

Cephalodella pseudeva Bērziņš, 1976

- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1977); C Eur. plain (Bērziņš, 1978)

Cephalodella pseudocuneata Manfredi, 1927

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Cephalodella reimanni Donner, 1950

- Palaearctic region: Leczna-Wlodawa Lake District, E Poland. Rare in Europe (Radwan, 1971)

Cephalodella retusa Myers, 1924

- Palaearctic region: C Eur. plains (Bērziņš, 1978)
- Nearctic region: N America (Bērziņš, 1978)

Cephalodella rigida Donner, 1950

- Palaearctic region: Alps & C Eur. mountains (Bērziņš, 1978); Lake Dümmer, NW Germany (Koste & Poltz, 1984); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps,

Austria (Donner, 1964); Shore of dammed or flowing stretches in the Danube, at the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lake Neusiedlersee, Austria (Donner, 1979); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); River Danube (Enaceanu & Brezeanu, 1970)

***Cephalodella rotunda* Wulfert, 1937**

- Palaeartic region: C Eur. mountains & plains, E Eur. plains (Bērziņš, 1978); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973); In periphyton of mosses & *Myriophyllum*, in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

- Nearctic region: Laurentian Great Lakes (Stemberger, 1979)

***Cephalodella rotunda* Wulfert, f. *bryophila* Pawlowski, 1938**

- Palaeartic region: Alps, C Eur. mountains & plains, Carpathes, E Eur. plains (Bērziņš, 1978); River Salzach & its tributaries, Austria (Donner, 1970); In the soil, Engelhartzell, Austria (Donner, 1971); Lake Grote Huisven, Oisterwijk, NL (Dresscher, 1976); Romania (Rudescu, 1960); Croatia (ex-Yugoslavia) (Erben, 1987); Peat bogs in the Auvergne, France (Francez, 1981)

- Antarctic region: Falkland Islands, Antarctica (Donner, 1980)

***Cephalodella sagitta* Wulfert, 1956**

- Palaeartic region: C Eur. mountains & plains (Bērziņš, 1978)

***Cephalodella serrata* Wulfert, 1937**

- Palaeartic region: C Eur. mountains & plains, Carpathes, E Eur. plains (Bērziņš, 1978); Pools in the Bucegi mountains, Romania (Godeanu, 1963a); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Small permanent pools & marshy zones *ibid.* (Godeanu, 1969b); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973)

***Cephalodella somniculosa* Margalef, 1948**

- Palaeartic region: Iberic peninsula (Bērziņš, 1978); Spain: Barcelona (Velasco, 1990)

***Cephalodella stenroosi* Wulfert, 1937**

- Palaeartic region: C Eur. mountains & plains, Hungarian plain, E Eur. plains, NW Russian taiga (Bērziņš, 1978); Finland (Eriksen, 1969); Afghanistan (Bērziņš, 1961); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed or flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Lake Neusiedlersee, Austria (Donner, 1972d & 1979); Boom, Belgium (Maes, 1985; De Ridder, 1986); Peat bogs in the Auvergne, France (Francez, 1981); 3 lakes of Sosnowickie, Poland (Radwan, 1966 & 1969); River Volga, R.F. (Mordukhai-Boltovskoi, 1979)

- Neotropical region: Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente & Sierra (Koste & Böttger, 1992)

***Cephalodella stenroosi* Wulfert, f. *austriaca* Donner, 1978**

- Palaeartic region: Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

***Cephalodella sterea* (Gosse, 1887)**

- Palaeartic region: Lake Bodensee near Konstanz (Koch-Althaus, 1962); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983); Lake Balaton, Hungary (Zankai, 1968 & 1989); C & E Sweden (Bērziņš & Pejler, 1989a, 1989b, 1989c & 1989d); L. Kisajno (Maz. lakeland), Poland (Klimowicz, 1964); Romania (Rudescu, 1960); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1983); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Almost all over Europe (Bērziņš, 1978); Island Hopen, Svalbard Archipelago (De Smet, 1990); Peat bogs in the Auvergne, France (Francez, 1981 & 1984c); River Danube (Enaceanu & Brezeanu, 1970); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez & Dévaux, 1985); ? Gatterbach, Nordhessen, Germany (Dürrenfeldt, 1978); In periphyton of mosses & *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach & its tributaries, Austria (Donner, 1970); Dübener Heide, N Germany (Wulfert, 1960b); Lake Neusiedlersee, Austria (Donner, 1979); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Temporary waters & small permanent pools in the Bucegi mountains, Romania (Godeanu, 1969a); Karelian inland waters, R.F. (Kutikova, 1965)

- Nearctic region: Colorado, USA (Turner, 1988); Arctic N America (Chengalath & Koste, 1989); Lac Echo, Québec, Canada (Nogrady, 1976)

- Oriental region: Impoundment Kinda, C Burma (Koste & Tobias, 1990); Ricefields in N Thailand (Heckman, 1979)

- Australian region: NT, Aust.: Magela Creek floodplain (Koste, 1981b); Alligator rivers area, NT, Aust.

(Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985); S Tasmania & NT, Aust. (Koste, Shiel & Tan, 1988); Rare: NT, Vic & Tas. (Koste & Shiel, 1991)

- Neotropical region: Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Oriente & Sierra, Ecuador (Koste & Böttger, 1992)

- Antarctic region: Antarctica (Sudzuki, 1988b); Obruchev, E coast of Antarctica (Kutikova, 1964b); Antarctica & Subantarctica (José de Paggi & Koste, 1984)

Cephalodella sterea (Gosse), f. *dentata* Donner, 1949

- Palaearctic region: 3 lakes of Sosnowickie, Poland (Radwan, 1966 & 1969); L. Taltowisko (Mazurian lakeland), Poland (Klimowicz, 1972)

Cephalodella sterea (Gosse), f. *excoculis* Bērziņš, 1976

- Palaearctic region: Aneboda, Sweden (Bērziņš, 1976); C Eur. plains (Bērziņš, 1978)

Cephalodella sterea (Gosse), f. *minor* Donner, 1949

- Palaearctic region: Lake Stechlinsee, N Brandenburg, Germany (Koch-Althaus, 1963; Ronneberger & Schönborn, 1985); 3 lakes of Sosnowickie, Poland (Radwan, 1968 & 1969); Romania (Rudescu, 1960); Croatia, ex-Yugoslavia (Erben, 1987); Courland Spit, R.F. (Zhadin *et al.*, 1972); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986)

Cephalodella sterea (Gosse), f. *mutata* Donner, 1950

- Palaearctic region: 3 lakes of Sosnowickie, Poland (Radwan, 1968 & 1969)

Cephalodella strepta Myers, 1924

- Australian region: Martin's Bay, New Zealand (Russell, 1960)

Cephalodella strigosa Myers, 1924

- Palaearctic region: C & E Eur. plains, UK (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella subsecunda Myers, 1924

- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella symbiotica Hauer, 1935

- Palaearctic region: C Eur. mountains & plains (Bērziņš, 1978)

Cephalodella tachyphora Myers, 1934

- Palaearctic region: Romania (Rudescu, 1960); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Carpathes, C & E Eur. plains, Baltic province (Bērziņš, 1978); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

- Nearctic region: N America (Bērziņš, 1978)

Cephalodella tantilla Myers, 1924

- Palaearctic region: River Grabia basin, Poland (Pawlowski, 1960); Lake Stråken, Aneboda, Sweden (Bērziņš, 1978); C & S Sweden (Bērziņš & Pejler, 1987); C Eur. mountains & plains, E Eur. plains, Carpathes, Baltic province (Bērziņš, 1978); Romania (Rudescu, 1960); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

- Oriental region: ? Singapore (Sudzuki, 1989)

- Australian region: Canterbury, New Zealand (Russell, 1960)

Cephalodella tantilloides Hauer, 1935

- Palaearctic region: Grote Huisven, Oisterwijk, NL (Dresscher, 1976); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); C Eur. mountains & plains, E Eur. plains, Baltic prov. (Bērziņš, 1978); Group *tantilla-tantilloides*: Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982, 1987 & 1988)

- Australian region: Bromfield swamp, Tropical Queensland crater lake, Aust. (Green, 1981); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Qld, Aust. (Shiel & Koste, 1985); Single record in Aust.: Bromfield swamp, Qld (Koste & Shiel, 1991)

Cephalodella tecta Donner, 1950

- Palaearctic region: R. Maas, Rijn, Waal & Yssel, NL (Dresscher, 1976); C Eur. mountains (Bērziņš, 1978)

Cephalodella tempesta Wulfert, 1956

- Palaearctic region: C Eur. plain (Bērziņš, 1978)

Cephalodella tenuior (Goose, 1886)

- Palaearctic region: River Danube (Enaceanu & Brezeanu, 1970); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Temporary waters in the Bucegi mountains, Romania (Godeanu, 1969a); R. Moldova, tributary to the Danube, Rom. (Prunescu-Arion, 1968); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966); Impoundment Neunzehnhainer Talsperre, Germ. (Althaus, 1976); Finland (Eriksen, 1969); Romania (Rudescu, 1960); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW

- Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Peat bogs in the "Massif Central", France (Batut, 1965); Lake Balaton, Hungary (Zankai, 1968 & 1989); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); Almost all over Europe (Bērziņš, 1978); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed or flowing stretches of river Danube, at the German- Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970)
- Nearctic region: Canada (Chengalath, 1977); Kingston, Ontario, Canada (Nogrady, 1989)
 - Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia (Sudzuki, 1989)
 - Australian region: Taieri Beach, New Zealand (Russell, 1960)
 - Antarctic region: Antarctica & Subantarctica (José de Paggi & Koste, 1984; Sudzuki, 1988b)
- Cephalodella tenuior*** (Gosse), f. *pigmentata* Wulfert, 1951
- Palaearctic region: Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); C Eur. mountains & plains, Carpathes (Bērziņš, 1978); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)
- Cephalodella tenuis*** Koch-Althaus, 1961
- Palaearctic region: L. Stechlinsee, N Brandenburg, Germany (Koch-Althaus, 1962 & 1963; Ronneberger & Schönborn, 1985); C Eur. plains (Bērziņš, 1978)
- Cephalodella tenuiseta*** (Burn, 1890)
- Palaearctic region: R. Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Lake Balaton, Hungary (Zankai, 1989); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); River Hase, NW Germany (Koste, 1976b); C Eur. mountains & plains, Hungarian plain, Pontic province, E Eur. plain, Baltic prov., UK (Bērziņš, 1978); Romania (Rudescu, 1960); Lake Neusiedlersee, Austria (Donner, 1979); Southwest islands in Japan (Sudzuki *et al.*, 1992)
 - Nearctic region: N America (Bērziņš, 1978)
 - Australian region: SW Aust. (Koste, Shiel & Brock, 1983); W Aust. (Shiel & Koste, 1979); Rare: Vic & W Aust. (Koste & Shiel, 1991)
 - Neotropical region: Antilles françaises (Pourriot, 1975); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Caribbean islands (Collado *et al.*, 1984)
- Cephalodella tenuiseta*** (Burn), f. *americana* Donner, 1949
- Palaearctic region: Polder ditches in Spaarnwoude, NL (Oosten, 1972); C Eur. mountains & UK (Bērziņš, 1978)
 - Nearctic region: N America (Bērziņš, 1978); Northern Michigan inland lakes (Stemberger, 1990)
- Cephalodella tenuiseta*** (Burn), f. *simplex* Bērziņš, 1976
- Palaearctic region: Aneboda, Sweden (Bērziņš, 1976); C Eur. plain (Bērziņš, 1978)
- Cephalodella theodora*** Koch-Althaus, 1961
- Palaearctic region: Lake Stechlinsee, N Brandenburg, Germany (Koch-Althaus, 1961 & 1963; Ronneberger & Schönborn, 1985); C Eur. plains (Bērziņš, 1978)
 - Nearctic region: Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988)
- Cephalodella tinca*** Wulfert, 1937
- Palaearctic region: Lake Neusiedlersee, Austria (Donner, 1979); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); River Ybbarsån, S Sweden (Bērziņš, 1979); Thüringen, Germany (Ronneberger, 1975); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); C Eur. mountains & plains, E Eur. plain (Bērziņš, 1978); ? Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1988); R. Maas, Rijn, Waal & Yssel; waterschap "De Alm", NL (Dresscher, 1976)
 - Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Indonesia (Sudzuki, 1989)
 - Australian region: Vic, Aust. (Shiel & Koste, 1979); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984; Koste, Shiel & Tan, 1988); Rare: Vic (billabong) & Tas. (stock dam) (Koste & Shiel, 1991)
 - Neotropical region: Near Concepcion, Paraguay (Koste, 1986b); Oriente, Sierra & Costa, Ecuador (Koste & Böttger, 1992)
- Cephalodella tinca*** Wulfert, f. *conspicua* Donner, 1950
- Palaearctic region: River Ybbarsån, S Sweden (Bērziņš, 1979); C Eur. mountains (Bērziņš, 1978); River Svratka, CSR (Kubicek, 1968)
- Cephalodella tincaformis*** Koste, 1991
- Neotropical region: Sierra, Ecuador (Koste & Böttger, 1992)
- Cephalodella unguitata*** Hauer, 1935
- Palaearctic region: C Eur. mountains (Bērziņš, 1978); Small water bodies, Soviet Karelia (Filimonova,

1976); Almost all over Europe (Bērziņš, 1978); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed or flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); River Salzach & its tributaries, Austria (Donner, 1970)

- Nearctic region: Canada (Chengalath, 1977); Kingston, Ontario, Canada (Nogrady, 1989)
- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia (Sudzuki, 1989)
- Antarctic region: Antarctica & Subantarctica (José de Paggi & Koste, 1984; Sudzuki, 1988b)

Cephalodella vacuna Myers, 1924

- Nearctic region: Mt. Tremblant prov. park, Québec, Canada (Nogrady, 1980)

Cephalodella valga (Gosse, 1886)

- Neotropical region: Paraguay (Koste & José de Paggi, 1882)

Cephalodella ventripes (Dixonuttall, 1901)

- Palaeartic region: Lake Bodensee near Konstanz (Koch-Althaus, 1962 & 1963); Impoundment Neunzehnhainer Talsperre, Germ. (Althaus, 1976); River Ybbarpsån, S Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); ? Scatt Ness, Shetland (De Smet *et al.*, 1988); Sea and rock pools, S Finnish coast (Björklund, 1972a); Coast of S Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d.); Romania (Rudescu, 1960); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); River Grabia basin, Poland (Pawlowski, 1960, 1968, 1970 & 1973); Lake Balaton, Hungary (Zankai, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Courland Spit, R.F. (Zhadin *et al.*, 1972); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria. (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed or flowing stretches in the Danube at the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970); Dübener Heide, N Germany (Wulfert, 1960a & 1960b); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Lake Neusiedlersee, Austria (Donner, 1979); River Danube (Enaceanu & Brezeanu, 1970); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Near water works at Okocim, Poland (Klimowicz, 1975); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); River Loire at St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Pond in Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Lao-shan mountains, China (Wulfert, 1968); Lake Stechlinsee, Brandenburg, Germany (Ronneberger & Schönborn, 1985); Temporary waters, small permanent ponds and marshy zones in the Bucegi mountains, Rom. (Godeanu, 1969a); Spain: Barcelona (Velasco, 1990); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973); All over Europe, Asia Minor. Cosmopolitan (Bērziņš, 1978); "Grote vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1986); "Kleine vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1989); Moat of fort Merksem, (Antwerp, Belgium) (De Smet *et al.*, 1987); Lower delta of river Volga, R.F. (Chuykov, 1981); Minorca, Spain (de Manuel, 1990); Engelbergs Moor, NW Germany (Koste, 1965)

- Nearctic region: Illinois & Missouri, USA (Bērziņš, 1984); Colorado, USA (Turner, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989)

- Australian region: In many localities in Aust. (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); Vic, Aust. (Koste & Shiel, 1980c); Uncommon in billabongs of r. Murray, NSW, Goulburn river, Vic; also dams in NE Tasmania (Koste & Shiel, 1991); Taiari Beach & Christchurch, New Zealand (Russell, 1960)

- Neotropical region: Sierra, Ecuador (Koste & Böttger, 1992)

Cephalodella ventripes (Dixonuttall), f. *angustior* Donner, 1949

- Palaeartic region: C Eur. mountains, E Eur. plains, Baltic province, Russian taiga (Bērziņš, 1978); ? Bjørnøya (Bear Island), Svalbard (De Smet, 1980); Dübener Heide, Germany (Wulfert, 1961); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984; Francez & Dévaux, 1985); Peat bogs in the Auvergne, France (Francez, 1981); Luga district of the Leningrad area, R.F. (Kutikova, 1962b)

Cephalodella vitella Wulfert, 1956

- Palaeartic region: C Eur. mountains & plains (Bērziņš, 1978)

Cephalodella wiszniewskii Edmondson & Hutchinson, 1934

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989)

Cephalodella wrighti Wulfert, 1960

- Palaeartic region: Dübener Heide, N Germany (Wulfert, 1960b & 1961); Sea and rock pools in S Finland (Björklund, 1972a); Coast of S Finland (Eriksen, 1969); C Eur. plains, NW Russian taiga (Bērziņš, 1978)

Cephalodella xenica Harring & Myers, 1924

- Neotropical region: Oriente, Ecuador (Koste & Böttger, 1992)

Cephalodella zeteta Wulfert, 1961

- Palaearctic region: C Eur. plains (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1961); ? Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

Cephalodella spec.

- Palaearctic region: Lakes in C Sweden (Pejler, 1964); Small lakes in Estonia (Haberman & Mäemets, 1985); Lake Bielersee, CH (Bernier-Fankhauser, 1986); "Altes Land" near Hamburg, Germany (Caspers & Heckman, 1982; Heckman, 1986); Middle course river Po, Italy (Ferrari *et al.*, 1986); River Ybbarpsån, Sweden (Bērziņš, 1978); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1961); Lakes in Estonia (Haberman, 1978); Peat pits in Finland (Selin & Koskinen, 1988); Delta of river Danube (Prunescu-Arion, 1989; Godeanu & Zinevici, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Croatia (ex-Yugoslavia) (Erben, 1987); Lake Königssee, Bavaria (Laxhuber, 1987); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); 3 different species in Skopun, Faröer (De Smet *et al.*, 1988); Near Asperg, Württemberg, Germany (Klement, 1960); Impoundment Kninicki, CSR (Kubicek, 1964); Lake Muy on Texel, NL (Leentvaar, 1967); Lakes in C Sweden (Pejler, 1965); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); River Po, Italy (Ferrari *et al.*, 1989); Koyama-Ike, a coastal pond in Japan (Sudzuki & Fukuta, 1989); Minorca, Spain (de Manuel, 1990); Norfolk Broads, UK (Irvine *et al.*, 1990); Impoundment in E Bohemia, CSR (Sladeckowa & Sladeczek, 1960); Slapy reservoir, 30 km upstream from Prague, CSR (Sladeckowa, 1960b); Canals in Hran area, CSR (Terek, 1960c); Mt. Fuji, Japan (Sudzuki, 1971); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Boatracing canal, Gent, Belgium (Coussement, 1982); River Lieve, Gent, Belgium (De Smet & Evens, 1970); Canal de Séclin, Nord, France (Angeli, 1972); Lac d' Annecy, France (Balvay & Druart, 1992); River Oltet and its principal tributaries, Rom. (Rogoz, 1972); Hamburg area, Germany (Rühmann, 1961); Middle course of River Loire, France (Lair & Sargos, 1981); River Sambre in Hautmont, France (Waeyaert, 1972); Pond étang de la Tour, Ile-de-France, France (Pourriot, 1965); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Inland sea round Kasado island, Japan (Sudzuki, 1976a, 1976b); Pond in Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Iriomote island, Japan (Sudzuki, 1979); Fukushima Prefecture, Japan (Sudzuki, 1982); Mt. Fuji area, Japan (Sudzuki, 1978a); Peat bogs in the Caucasus (Tarnogradsky, 1961); Periphytic biota in sewages and park waters, Japan (Sudzuki, 1981); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); In soils, litter and mosses in forests in Japan (Sudzuki, 1978b); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Pool S of Trondheim, Norway (Thomasson, 1979); Lake Ohrid, Balkan peninsula (Stankovic, 1960); Lago Trasimeno, Italy (Taticchi, 1968); Pool in Kaito, China (Wulfert, 1988); Water works Traiskirchen, S of Vienna, Austria (Weninger, 1971); River Cerna basin, Romania (Enaceanu-Brezeanu & Marinescu-Popescu, 1964); River Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Baikal Cellulose Plant, L. Baikal, R.F. (Pomazkova & Kozhova, 1976); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Aral Sea spawning grounds (Jerekeyev & Kazakhbayev, 1972); Prague, CSR (Sladeckowa, 1985); In sewage biota in Tokyo and adjacent prefecture, Japan (Sudzuki, 1981); Dragon Pond, Gyokusen-dô cave, Japan (Sudzuki & Hosoyama, 1991); Southwest islands of Japan (Sudzuki *et al.*, 1992); Korea (Turner, 1986); Hilversumse wasmeer (guanotropic), NL (Leentvaar, 1967b); Lausitzer Neisse & Oder, Germany (Walter & Scharf, 1961); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach and its tributaries, Austria (Donner, 1970); Shore of dammed or flowing stretches in the Danube, at the German-Austrian border (Donner, 1972); Hamburg Harbour, Germany (Tent, 1981); Hudsons Bay & Hoveton Grat Broad, E Anglia, UK (Timms & Moss, 1984); Loosdrecht Lakes, NL (Van Tongeren *et al.*, 1992); All over the Netherlands (Dresscher, 1976); Etang the Soustons, SW France (De Ridder, 1967b); Brackish waters near Bruges, Belgium (De Ridder & Verheye, 1980); River Elbe estuary, Germany (Schulz, 1961); Roscoff, Atlantic coast of Brittany, France (D'Hondt, 1970); Ellesmere district, UK (Galliford, 1960a); Canal Leeds-Liverpool, UK (Galliford, 1960b); Shores of the White Sea, R.F. (Ghilarov, 1967); Lakes N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); River Bistritza and its tributaries, Romania (Miron, 1960); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Bog pond near Budapest, Hungary (Nogrady, 1962); Lac de Tazenat, Massif Central, France (Omalý, 1969)

- Nearctic region: Colorado, USA (Turner, 1988); Milwaukee Harbour, USA (Stemberger, 1974); Northern Michigan inland lakes (Stemberger, 1990); Experimental ponds, C Florida, USA Fry & Osborne, 1980); Lake Wabamun, Alberta, Canada (Gallup & Heckman, 1975); Atchafalaya r. basin, Louisiana, USA (Holland *et al.*, 1983); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); Long pond, St. John's, Newfoundland, Can. (O'Connell & Andrews, 1977); Crater L., Walker L. & Stoneman L., Arizona, USA (Green, 1986); Massey Lake, 16 km N of Beaumont, Texas, USA (March *et al.*, 1978)

- Oriental region: Swamp near Menggala, Sumatra (Bērziņš, 1982a); Taiwan, Thailand, Singapore, Indonesia

(Sudzuki, 1989); Bung-Borapet, C Thailand (Koste, 1975a); Kalimantan (Borneo), Indonesia (Koste, 1988a); In ricefields of N Kraiu, Perak, Malaysia (Ali, 1990); Impoundment Kinda, C Burma (Koste & Tobias, 1990); Lake Sat Tal, Utar Pradesh, India (Pant *et al.*, 1985); Ricefields in NE Thailand (Heckman, 1979) - Australian region: Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); 2 different species in Tasmania (Sudzuki, 1985); River Murray, Aust. (Koste, 1979b); NW Aust.: Magela Creek floodplain (Koste, 1981b); In many localities in Australia (Bērziņš, 1982); Valley lake, freshwater temperate Aust. craterlake (Green, 1981); Alligator rivers area, NW Aust. (Koste & Shiel, 1983a) - Neotropical region: Chile (Löffler, 1962); Embalse Rio Tercero Fish Culture Station, Cordoba Province, Argentina (Marinone & Zagarese, 1991); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Mato Grosso, Brazil (Turner & Da Silva, 1992); Araucarian lakes, W and E of the Andes, Chile; Araucarian pools and ponds, *ibid.*) (Thomasson, 1963b); Galapagos Islands (De Smet, 1987 & 1989); Crescent Lake, Rio Snia Missu, Mato Grosso, C Brazil (Green, 1972); Surinam (Leentvaar, 1975); Lake Llanquihuc, Chile (Campos *et al.*, 1988); River Parana, Argentina (José de Paggi, 1978a & 1985); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1989 & 1992); Argentina (Modenutti & Claps, 1988); Arroyo Rodriguez, prov. of Buenos Aires, Argentina (Modenutti, 1987); Provinces in NW Argentina (José de Paggi, 1989); Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Near Panguana, Peru (Koste, 1988b); Argentine Patagonia (Kuczynski, 1987b); Santa Cruz, Galapagos Islands (Segers, 1991a); Floodplain of Rio Solimoes, Brazil (Aranjo-Lima & Hardy, 1987); Lake Cocibola, Nicaragua (Moreno *et al.*, 1992) - Antarctic region: Area of Mc Murdo Sound (Armitage & House, 1962); Southern Victoria Land lakes, Antarctica (Cathey *et al.*, 1981)

Collothea Harring, 1913

Collothea ambigua (Hudson, 1883)

- Palaearctic region: Lake Balaton, Hungary (Zankai, 1968); Finland (Eriksen, 1969); Romania (Rudescu, 1960); Lake Neusiedlersee, Austria (Donner, 1975 & 1979); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor near Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968); Lake Alfsee, NW Germany (Koste & Poltz, 1987); L. Stechlinsee, N Brandenburg, Germany (Athaus, 1963; Ronneberger & Schönborn, 1985); NW Germany (Koste, 1970g); All over Europe (Bērziņš, 1978); River Sambre and pond in Landelies, Belgium (Daems & Dumont, 1973); Southwest islands of Japan (Sudzuki *et al.*, 1992); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id. + Nat. Res. "Het Hol" near Kortenhoef, NL (Dresscher, 1976); Landelies, Belgium (De Ridder, 1986); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Temporary waters in the Bucegi mts., Romania (Godeanu, 1969a); Karelian inland waters, R.F. (Kutikova, 1965); In reed borders of the Danube delta, Romania (Rudescu, 1968) - Nearctic region: Canada (Chengalath, 1977); Laurentian Great Lakes (Stemberger, 1979) - Australian region: NSW and Vic, Aust. (Shiel & Koste, 1979); ? Tasmania (Koste & Shiel, 1986b); Auckland, New Zealand (Russell, 1960) - Neotropical region: Amazonia, Brazil (Koste, 1972f); ? Varzea near Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982); Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente & Costa (Koste & Böttger, 1992)

Collothea ambigua (Hudson) f. *tenera* Edmondson, 1939

- Palaearctic region: C Eur. mountains (Bērziņš, 1978)

Collothea annulata (Hood, 1888)

- Palaearctic region: Alps, Carpathes, C & E Eur. plains, Iceland (Bērziņš, 1978); Romania (Rudescu, 1960); Pelagic zone of the Leczna-Wlodawa lakes, Poland (Radwan, 1975); Peat bogs Poiana Stampei, Bukowina, Rom. (Radwan, 1966)

Collothea atrochoides (Wierzejski, 1893)

- Palaearctic region: Alps, C Eur. mountains & plains, Hungarian plain, Pontic prov., E Eur. plains, Baltic prov., N Eur. tundra & NW Russian taiga (Bērziņš, 1978); Romania (Rudescu, 1960); Lake Balaton, Hungary (Zankai, 1968); Obretin lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973) - Nearctic region: N America (Bērziņš, 1978) - Neotropical region: Argentina (Koste & José de Paggi, 1982); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

Collotheca balatonica Varga, 1936

- Palaearctic region: Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai & Ponyi, 1971a & 1972; Zankai, 1968, 1984 & 1989); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); C Eur. mountains, Hungarian plain, Pontic prov., Asia minor (Bērziņš, 1978); Romania (Rudescu, 1960); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a); Lake Glubokoe, near Moscow, R.F. (Matveeva, 1986 & 1991); River Maas, Rijn, Waal & Yssel, NL (Dresscher, 1976)

Collotheca bilfingeri Bērziņš, 1951

- Palaearctic region: NW Germany (Koste, 1971); C Eur. mountains & plains (Bērziņš, 1978); Romania (Rudescu, 1960); Lake Neusiedlersee, Austria (Donner, 1975 & 1979); In reed borders of the Danube delta, Rom. (Rudescu, 1968)

Collotheca bjoerki Bērziņš, 1975

- Palaearctic region: C Eur. mountains & plains (Bērziņš, 1978)

Collotheca breviciliata Bērziņš, 1951

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Collotheca bulbosa Bērziņš, 1951

- Palaearctic region: Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); C Eur. plain & Baltic province (Bērziņš, 1978)

Collotheca calva (Hudson, 1885)

- Palaearctic region: Almost all over Europe (Bērziņš, 1968); Romania (Rudescu, 1960); R. Maas, Rijn, Maas & Yssel, NL (Dresscher, 1976); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); In reed borders of the Danube delta, Romania (Rudescu, 1968); 3 lakes of Sosnowickie, Poland (Radwan, 1966 & 1969); Pelagic zone of the Leczna-Wlodawa lakes, Poland (Radwan, 1975)

- Neotropical region: Argentina (Koste & José de Paggi, 1982); Prov. Rio Negro, Argentina (José de Paggi, 1990); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

Collotheca campanulata (Dobie, 1849)

- Palaearctic region: Lake Neusiedlersee, Austria (Donner, 1979); Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); N Swedish Lapland (Pejler, 1962a); Romania (Rudescu, 1960); Edgeøya (Svalbard) (De Smet *et al.*, 1988b); Lake Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); NW Germany (Koste, 1970g); Lake Alfsee, NW Germany (Koste & Poltz, 1987); All over Europe (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); Dübener Heide, N Germany (Wulfert, 1960b & 1961); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Frankenland, Germany (Tiefenbacher, 1972); Peat bog La Godivelle, Puy-de-Dôme, France (Francez, 1984a & 1984b); Kortrijk, Belgium (De Ridder, 1986); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id. + Nat. Res. "Het Hol" near Kortenhoef, NL (Dresscher, 1976); Impoundments in the Bistrila valley, Romania (Corneanu, 1972); Karelian inland waters, R.F. (Kutikova, 1965); Lakes of the Black Sea shore, Romania (Godeanu, 1970b)

- Nearctic region: Canada (Chengalath, 1977); NE Canada (Newfoundland & Labrador) (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: ? Kalimantan (Borneo), Indonesia (Koste, 1988a)

- Australian region: Tasmania (Koste & Shiel, 1987); NSW, Qld, Vic in Aust. (Shiel & Koste, 1979); Tasmania & New Zealand (Sudzuki, 1985); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NW Aust.: Magela Creek floodplain (Koste, 1981b)

- Neotropical region: Lower Orinoco river and its delta, Venezuela (Vasquez & Rey, 1989); Varzea (=lagoon) near Santarem, Brazil (Koste, 1964b); Brazil & Panama (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Oriente & Costa, Ecuador (Koste & Böttger, 1989 & 1992)

Collotheca campanulata (Dobie), f. *longicaudata* (Hudson, 1883)

- Palaearctic region: NW Germany (Koste, 1970d); Acid waters in Germany, Switzerland, UK, Ireland, CSR, Romania, European R.F. (Koste, 1972b); Romania (Rudescu, 1960); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Alps, C Eur. mountains & plains, Carpathes, C & E Eur. plains, Baltic prov., UK, Ireland, Boreal highlands (Bērziņš, 1978); Lac d'Annecy, France (Balvay & Druart, 1992)

- Nearctic region: USA (Koste, 1972b); Mud pond, New Hampshire, USA (Wallace, 1977a)

- Australian region: Stock dam, St. Mary's road, Lake Pedder, Tasm. (Koste & Shiel, 1986b); Tasmania (Koste & Shiel, 1987); Qld, Aust. (Shiel & Koste, 1979)

- Neotropical region: Brazil (Koste & José de Paggi, 1982); Near Panguana, Peru (Koste, 1988b); Oriente

& Costa, Ecuador (Koste & Böttger, 1992)

Collotheca coronetta (Cubitt, 1869)

- Palaeartic region: Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965 & 1970a); Italy, Alps, C Eur. mountains & plains, Carpathes, Baltic prov., C Eur. plains, Ireland, UK, Boreal Highlands, Eur. tundra, NW Russian taiga (Bērziņš, 1978); NW Germany (Koste, 1971); Romania (Rudescu, 1960); Pond at Landelies, Belgium (Daems & Dumont, 1973; De Ridder, 1986); Southwest islands of Japan (Sudzuki *et al.*, 1992); Peat bog Graspets (Cantal), France (Francez, 1984a); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984b); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Pelagic zone of the Leczna-Wlodawa lakes, Poland (Radwan, 1975); River Volga, R.F. (Mordukhai-Boltovskoi, 1979)

- Australian region: NSW, Qld, S Aust. & Vic (Shiel & Koste, 1979); SW Australia (Koste, Shiel & Brock, 1983); The Hutt, New Zealand (Russell, 1960)

- Neotropical region: Haiti (Collado *et al.*, 1984)

Collotheca coronetta (Cubitt), f. *weberi* Summerfield-Wright, 1961

- Palaeartic region: Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); NW Germany (Koste, 1971); C Eur. plains, UK (Bērziņš, 1978); NE Norfolk, UK (Summerfield-Wright, 1961)

Collotheca crateriformis Offord, 1934

- Palaeartic region: C Eur. plains & UK (Bērziņš, 1978)

Collotheca cucullata (Hood, 1894)

- Palaeartic region: Baltic province & UK (Bērziņš, 1978)

Collotheca cucullata (Hood), f. *smolandica* Bērziņš, 1951

- Palaeartic region: C Eur. plains (Bērziņš, 1978)

Collotheca discophora (Skorikov, 1903)

- Palaeartic region: E Eur. plains, NW Russian taiga (Bērziņš, 1978); Karelian inland waters, R.F. (Kutikova, 1965)

Collotheca edentata (Collins, 1872)

- Palaeartic region: Romania (Rudescu, 1960); NW Germany (Koste, 1986); Alps, W & C Eur. mountains, Hungarian plain, Pontic prov., W, C & E Eur. plains, Baltic province, UK (Bērziņš, 1978); River Maas, Rijn, Waal & Yssel, NL (Dresscher, 1976)

- Nearctic region: NE Canada (Chengalath & Koste, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Newfoundland & Labrador, Canada (Chengalath & Koste, 1983); Arctic N America (Chengalath & Koste, 1989); Lac Echo, Québec, Canada (Nogrady, 1976); Nearktis (Koste, 1986); N America (Bērziņš, 1978); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: Bung-Borapet, C Thailand (Koste, 1975a); Thailand & Singapore (Sudzuki, 1989)

- Australian region: Roadside pool near Frenchman's Cap, Tas. (Koste & Shiel, 1986b); Tasmania (Koste, 1986)

- Neotropical region: Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Amazonia, Brazil (Koste & José de Paggi, 1982; Koste, 1986); Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1992)

Collotheca edentata (Collins), f. *voighti* Bērziņš, 1951

- Palaeartic region: N Swedish Lapland (Pejler, 1962a); C Eur. plains (Bērziņš, 1978)

Collotheca edmondsoni Bērziņš, 1951

- Palaeartic region: C Eur. plains (Bērziņš, 1978)

Collotheca epizootica (Monard, 1922)

- Palaeartic region: Alps (Bērziņš, 1978)

Collotheca evansonii (Anderson & Shephard, 1892)

- Australian region: Vic, Aust. (Shiel & Koste, 1979)

Collotheca ferox Pénard, 1914

- Palaeartic region: Alps & C Eur. plains (Bērziņš, 1978); In peat bogs N Germany (Koste, 1986)

Collotheca gossei (Hood, 1892)

- Palaeartic region: UK (Bērziņš, 1978)

Collotheca gracilipes Edmondson, 1939

- Palaeartic region: C Eur. mountains, Carpathes, Pontic province C Eur. plains, UK (Bērziņš, 1978); ? Darnsee near Epe, NW Germany (Koste, 1962); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Small permanent ponds in the Bucegi mountains, Romania (Godeanu, 1969a); Delta of river Danube, Romania (Rodewald-Rudescu & Godeanu, 1961)

- Nearctic region: N America (Bērziņš, 1978); Kingston, Ontario, Canada (Nogrady, 1989); Seattle, Washington, USA (Wallace & Edmondson, 1986)

- Antarctic region: Moss Lake, Signy Island, Antarctica (Priddle & Dartnall, 1978); Antarctica & Subantarctica (José de Paggi & Koste, 1984); Antarctica (Dartnall & Hollowday, 1985)

Collotheca heptabrachiata (Schoch, 1869)

- Palaearctic region: Finland (Eriksen, 1969); In reed borders of the Danube delta, Romania (Rudescu, 1968); C & S Sweden (Bērziņš & Pejler, 1987); NW Germany (Koste, 1970g & 1971); All over Europe (Bērziņš, 1978); Romania (Rudescu, 1960); Peat bog in N Bohemia, CSR (with interesting occurrence data) (Sladeczek, 1963); CSR (Sladeczek, 1962); Peat bogs Graspets (Cantal) & La Plaine Jacquot (Puy-de-Dôme), France (Francez, 1984a); Peat bogs Chambedaze & La Godivelle (Puy-de-Dôme), France (Francez, 1984b)

- Nearctic region: Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980)

- Neotropical region: In phytotelmata on Jamaica (Koste *et al.*, 1991)

Collotheca heptabrachiata (Schoch), f. *diadema* (Petr, 1890)

- Palaearctic region: C Eur. mountains & plains, Pontic province (Bērziņš, 1978); Romania (Rudescu, 1960); In reed borders of the Danube delta, Romania (Rudescu, 1968)

Collotheca hoodi (Hudson, 1883)

- Palaearctic region: Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1989a); C Eur. mountains & plains, Pontic province, UK, NW Russian taiga (Bērziņš, 1978); Romania (Rudescu, 1960)

- Nearctic region: N America (Bērziņš, 1978)

Collotheca judayi Edmondson, 1940

- Nearctic region: Mud Pond, New Hampshire, USA (Wallace, 1977a)

- Neotropical region: Brazil (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente & Costa (Koste & Böttger, 1992)

Collotheca lettevalli Bērziņš, 1976

- Palaearctic region: Aneboda, S Sweden (Bērziņš, 1978); C Eur. plain (Bērziņš, 1978)

Collotheca libera (Zacharias, 1894)

- Palaearctic region: Lake Myvatn, Iceland (Adalsteinsson, 1979); River Danube (Enaceanu & Brezeanu, 1970); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Saidenbachtalsperre, Erzgebirge, Germany (Beuschold, 1961); Coast of S Finland (Eriksen, 1969); Lake Ormijärvi, S Finland (Cajander, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Königssee, Bavaria (Laxhuber, 1987); C Finland (Eloranta, 1982b); Lakes C Sweden (Pejler, 1964 & 1965); Romania (Rudescu, 1960); All over Europe (Bērziņš, 1978); Volga river, R.F. (V'yushkova & Lakhnova, 1974; Mordukhai-Boltovskoi, 1979); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); W Iceland (De Ridder, 1972); Lake Glubokoe, near Moscow, R.F. (Matveeva, 1986 & 1991); Serbian section of river Danube (Zivkovic, 1968 & 1987); New impoundments in CSR (Kubicek, 1968); Lake Zürichsee, CH (Nipkow, 1961); Lake Erken, Sweden (Nauwerck, 1963); Karelian inland waters, R.F. (Kutikova, 1965)

- Nearctic region: Canada (Chengalath, 1977); NE Canada (Newfoundland & Labrador) (Chengalath & Koste, 1983); Wisconsin, USA (Bērziņš, 1978); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Lake Weir, N C Florida, USA (Beaver & Crisman, 1990); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant prov. Park, Québec, Canada (Nogrady, 1980); ? Lake 122 and Lake 132, NW Ontario, Canada (Schindler & Novén, 1971); Mowich L., mt. Rainier Nat. Park, Washington State, USA (Larson, 1973)

- Oriental region: Impoundment Kinda, C Burma (Koste & Tobia, 1990)

- Australian region: Tasmania (Koste & Shiel, 1986b)

- Neotropical region: Chile (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Prov. Chubut, Argentina (José de Paggi, 1982); Lake Ramo, Chile (Campos *et al.*, 1992); Araucarian lakes, W & E of the Andes, Chile (Thomasson, 1963b)

Collotheca liepettersoni Bērziņš, 1951

- Palaearctic region: Lakes C Sweden (Pejler, 1962d, 1964 & 1965); Lake Skärhultsjön, S Sweden (Bērziņš, 1976); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Alps, C Eur. plains, Boreal highland, N Sweden (Bērziņš, 1978)

Collotheca millsii

- Neotropical region: Ecuador: Costa (Koste & Böttger, 1992)

Collotheca minuta (Milne, 1905)

- Palaearctic region: UK (Bērziņš, 1978)

Collotheca mira (Hudson, 1885)

- Palaearctic region: UK, Boreal highlands (Bērziņš, 1978)

- Nearctic region: Mud Pond, New Hampshire, USA (Wallace, 1977a)

- Oriental region: Nimeta waterworks, near Baroda, India (Wulfert, 1966); India (Sudzuki, 1989)

Collotheca monoceros (Zacharias, 1912)

- Palaearctic region: C Eur. plain (Bērziņš, 1978)

Collotheca moseli (Milne, 1905)

- Palaearctic region: C Eur. plains & UK (Bērziņš, 1978)

Collotheca mucosa

- Neotropical region: Surinam (Leentvaar, 1975)

Collotheca mutabilis (Hudson, 1885)

- Palaearctic region: Lake Võtsjärv, Estonia (Kutikova & Haberman, 1986); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Königssee, Bavaria (Laxhuber, 1987); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); L. Stechlinsee & L. Nehmitzsee, Brandenburg, G. (Kasprzak & Ronneberger, 1982); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); L. Taltowisko, Mazurian lakeland, Poland (Klimowicz, 1972); L. Blankvatn, near Oslo, Norway (Larsson, 1971); L. Zwanewater in Callantsoog, NL (Leentvaar, 1967); L. Breede water (Voorne) & L. Vogelmeer near Ymuiden, NL (Leentvaar, 1963); Romania (Rudescu, 1960); Lakes in C Sweden (Pejler, 1964, 1965 & 1972); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundments Saidenbach & Neunzehnhain, Germany (Althaus, 1976); Lakes S Sweden (Armeno *et al.*, 1968); Small lakes in Estonia (Haberman & Mäemets, 1987); Grasmere lake, L. District, UK (Elliott, 1977); 2 lakes in N Sweden (Axelson, 1961); Tingwall Loch, Mainland, Shetland (Bērziņš, 1982a); Finland (Eriksen, 1969); Lake Ormijärvi, S Finland (Cajander, 1983); Darnsee near Epe, NW Germany (Koste, 1962); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Volga River, R.F. (V'uyshkova & Lakhnova, 1974); Lapland State Preserve, R.F. (Ghilarov, 1972); E Baltic, Gulf of Bothnia, G. of Finland, S North Sea (Bērziņš, 1960); All over Europe. Cosmopolitan (Bērziņš, 1978); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); Rügener, Hiddenseer & Darszer Boddengewässer, NE Germany (Schwarz, 1963); Mt. Fuji, Japan (Sudzuki, 1971a); Small lakes SE of Gothenburg, W Sweden (Morling & Pejler, 1990); Lake Baikal, R.F. (Kozhov, 1963; Kutikova, 1978); Lakes in the Kuokkel area, N Swedish Lapland (Persson, 1978); Pool S of Trondheim, Norway (Thomasson, 1979); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Gemündener Maar, Weinfelder M. & Pulvermaar, Eifel, Germany (Oehms & Seitz, 1992); Volga river, R.F. (Mordukhai-Boltovskoi, 1979); Pond in Rambouillet, Yvelines, France (Pourriot, 1965); Mt. Fuji area, Japan (Sudzuki, 1978a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Serbian section of r. Danube (Zivkovic, 1987); ? Lago Trasimeno, Italy (Taticchi, 1968); Leczna-Wlodawa Lake District, Poland (Kowalczyk & Radwan, 1982; Radwan, 1984); Japanese inland waters (Yamamoto, 1960a); Impoundment Riveris, near Trier, Germany (Schnitzler, 1976); Lac Léman, Fr./CH (Martin, 1961; Balvay & Laurent, 1981; Balvay *et al.*, 1990); Brabantse Biesbosch & surroundings; R. Maas, Rijn, Waal & Yssel; dune waters: Quackjeswater, Breede water & Vogelmeer, Voorne; de Westeinder; Loosdrecht Lakes, NL (Dresscher, 1976); Lake Konstanz, Germany (Walz *et al.*, 1987); Lac de la Crégut & L. de Laspialade, Dépt. du Cantal, France (Omaly, 1970); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Lake Zürichsee, CH (Nipkow, 1961); Lake Erken, Sweden (Nauwerck, 1963); Karelian inland waters, R.F. (Kutikova, 1965); L. Aydat, L. Pavin, L. Chauvet, L. Montcineyre & L. Bourdouze, Puy-de-Dôme, France (Persoone *et al.*, 1968)

- Nearctic region: Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant Prov. park, Québec, Canada (Nogrady, 1980); Lake Ontario, Canada (Nauwerck, 1978); Laurentian Great Lakes (Stemberger, 1979); Newfoundland & Labrador, Canada (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cape Herschel, Ellesmere Island, NWT, Canada (Nogrady & Smol, 1989); Lakes in Adirondack mts., NY, USA (Siegfried *et al.*, 1989); Canada (Chengalath, 1977); Lake Michigan, USA (Stemberger, 1974); Wisconsin & Kentucky, USA (Bērziņš, 1984); Little Rock Lake, Wisconsin, USA (Frost & Montz, 1988); Acid lakes in Maine, USA (Brett, 1989); Arctic N America (Chengalath & Koste, 1989); Newfoundland lakes, Canada (Chengalath *et al.*, 1984)

- Oriental region: Delhi, India (Sarma, 1988)

- Australian region: NSW, Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); ? E Australia (Koste & Shiel, 1980b)

- Neotropical region: Araucarian lakes, W and E the Andes, Chile (Thomasson, 1963b); Surinam (Leentvaar, 1975); Argentina, Chile, Surinam (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); L. Escondido, prov. Rio Negro, Argentina (Balseiro & Modenutti, 1990); Prov. Tierra del Fuego, Chubut & Rio Negro, Argentina (José de Paggi, 1990); Lake Monte Alegre, SE Brazil (Arcifa *et al.*, 1992)

Collotheca ornata (Ehrenberg, 1832)

- Palaearctic region: Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); NW Germany (Koste, 1970g & 1971); Lac Léman, Fr./CH (Balvay & Laurent, 1981, 1989 & 1990a; Balvay *et al.*, 1985); Lake Donk, Overmere, Belgium (Coussement & De Henau, 1985; Dumont, de Henau & Coussement, 1977; De Ridder, 1986); All over Europe. Cosmopolitan (Bērziņš,

- 1978); Romania (Rudescu, 1960); Rügener, Hiddenseer & Darsser Boddengewässer, NE Germany (Schwarz, 1963); Reservoir Sedlice, near Zeliv, Bohemia, CSR (Sladeckova, 1960 & 1962); Reservoir Sedlice & Reservoir Flajc, *ibid.* (Sladeckova & Sladeczek, 1963); Southwest Islands of Japan (Sudzuki *et al.*, 1992); Peat bogs Chambedaze, La Godivelle (Puy-de-Dôme) & Graspets, Cantal, France (Francez, 1984a); Peat bogs Chambedaze & La Godivelle (Puy-de-Dôme), France (Francez, 1984b); Peat bog Chambedaze, (Puy-de-Dôme), France (Francez, 1982); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); ? Shore of dammed or flowing stretches of the Danube at the German-Austrian border (Donner, 1972); Frankenland, Germany (Tiefenbacher, 1972); R. Maas, Rijn, Waal & Yssel; Nat. Res. Oisterwijkse vennen; Nat. Res. "Het Hol" near Kortenhoef, NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1975 & 1979); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Mt. Fuji area, Japan (Sudzuki, 1978a); Periphytic biota in sewage & park waters, Japan (Sudzuki, 1981); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Anatolia, Turkey (Segers *et al.*, 1992); Karelian inland waters, R.F. (Kutikova, 1965); Lakes in C Sweden (Pejler, 1962d, 1964 & 1965); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); ? Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); Pools at Gif-sur-Yvette & Rambouillet, Paris suburb, France (Pourriot, 1965); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Spain: Barcelona, Madrid, Orense (Velasco, 1990); "Altes Land" near Hamburg, Germany (Caspers & Heckman, 1981 & 1982); River Ybbarpsån, Sweden (Bērziņš, 1979); Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Near Asperg, Württemberg, Germany (Klement, 1960); N Swedish Lapland (Pejler, 1962a); Romania (Rudescu, 1960); Canal Leeds-Liverpool, UK (Galliford, 1960b); Lakes around mt. Fuji, Japan (Sudzuki, 1971)
- Nearctic region: Canada (Chengalath, 1977); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); NW Canada (Chengalath & Koste, 1987); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Mud pond, New Hampshire, USA (Wallace, 1977a); Laurentian Great Lakes (Stemberger, 1979)
 - Oriental region: Sri Lanka (Fernando, 1980a); Singapore (Karunakaran & Johnson, 1978); Malaysia, Singapore, Indonesia, Sri Lanka (Sudzuki, 1989); Delhi, India (Sarma, 1988); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); Ricefields in NE Thailand (Heckman, 1979)
 - Australian region: SW Aust. (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); NSW, Qld, Vic in Aust. (Shiel & Koste, 1979); ? E Aust. (Koste & Shiel, 1980b); Lincoln, New Zealand (Russell, 1960)
 - Neotropical region: Peru & Panama (Koste & José de Paggi, 1982); Mato Grosso, Brazil (Turner & Da Silva, 1992); Broa Reservoir, Sao Paulo State, Brazil (Matsumura-Tundisi & Tundisi, 1976); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Near Panguana, Peru (Koste, 1988b); In phytotelmata on Jamaica (Koste *et al.*, 1991)
 - Antarctic region: Mc Murdo Sound area (Armitage & House, 1962)
- Collotheca ornata*** (Ehrenberg), f. *cornuta* (Dobie, 1849)
- Palaearctic region: River Ybbarpsån, Sweden (Bērziņš, 1979); Finland (Eriksen, 1969); C & S Sweden (Bērziņš & Pejler, 1989a, 1989b, 1989c & 1989d); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Romania (Rudescu, 1960); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968a); NW Germany (Koste, 1970g & 1971); Lake Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976; De Ridder, 1986); All over Europe (Bērziņš, 1978); Hopen, Svalbard Archipelago (De Smet, 1990); Rügener, Hiddenseer & Darsser Boddengewässer, NE Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai, 1968); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Dübener Heide, N Germany (Wulfert, 1960a); Japanese inland waters (Yamamoto, 1960a); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed or flowing stretches of river Danube at the German-Austrian border (Donner, 1972); Frankenland, Germany (Tiefenbacher, 1972); Peat bog La Godivelle, Puy-de-Dôme, France (Francez, 1984a); Pond in Rambouillet, Yvelines, France (Pourriot, 1965); Lago Trasimeno, Italy (Taticchi, 1968); Lake Biwa-ko, Japan (Yamamoto, 1960b); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id. + Nat. Res. "Het Hol" near Kortenhoef; Lakes Venematen; Loosdrecht Lakes; Prov. Drente, NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1979); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984b); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Karelian inland waters, R.F. (Kutikova, 1965)
 - Nearctic region: Canada (Chengalath, 1977); L. Hodges, San Diego County, California, USA. (Nogrady, 1983); Kingston, Ontario, Canada (Nogrady, 1989); Fayetteville, Onondaga County, NY State, USA (Jackson, 1972)
 - Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a); Impoundment Kinda, C Burma (Koste & Tobias, 1990)

- Australian region: NSW & Vic, Aust. (Shiel & Koste, 1979); Christchurch, New Zealand & Campbell Island (Russell, 1960)

- Neotropical region: Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1992); Lago Camaleão, Brazil (Koste, Robertson & Hardy, 1984); Broa reservoir, Sao Paulo State, Brazil (Matsumura-Tundisi & Tundisi, 1976)

- Antarctic region: Moss Lake, Signy Island, Antarctica (Priddle & Dartnall, 1978); Isle of Signy, Antarctica (Dartnall, 1977 & 1983); Antarctica (Dartnall & Hollowday, 1985); Antarctica & Subantarctica (José de Paggi & Koste, 1984; Sudzuki, 1988b)

Collothecha ornata (Ehrenberg), f. *cyclops* (Cubitt, 1871)

- Palaearctic region: Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); NW Germany (Koste, 1970 & 1971); C Eur. mountains & plains, Hungarian plain, Pontic province, Baltic province, Ireland & UK (Bērziņš, 1978); Peat bog Graspets, Cantal, France (Francez, 1984a); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984b); Lake Neusiedlersee, Austria (Donner, 1975 & 1979)

- Australian region: Lake Catani, mt. Buffalo, Aust. (Bērziņš, 1982); NSW, Aust. (Shiel & Koste, 1979)

Collothecha ornata (Ehrenberg), f. *natans* (Tschugunov, 1921)

- Palaearctic region: Pontic province, E Eur. plain, Caspian area (Bērziņš, 1978); Black Sea (Rudescu, 1961); Romania (Rudescu, 1960)

- Nearctic region: Mt. Tremblant Prov.Park, Québec, Canada (Nogrady, 1980)

- Oriental region: Sri Lanka, rare; found in ponds (Chengalath, Fernando & Koste, 1973); Lake Parakrama, Sri Lanka (Fernando, 1984); Kalimantan (Borneo), Indonesia (Koste, 1988a); Impoundment Kinda, C Burma (Koste & Tobias, 1990)

- Australian region: Tasmania (Koste & Shiel, 1986b)

- Neotropical region: Lago do Macaco, Brazil (Koste, 1989a); Mato Grosso, Brazil (Turner & Da Silva, 1992); Ecuador: Oriente (Koste & Böttger, 1989)

Collothecha pelagica (Rousselet, 1893)

- Palaearctic region: Impoundment "Eisernes Tor", Danube, Romania (Brezeanu & Peten, 1973); ? Lake in S Sweden (Arnemo *et al.*, 1968); ? Lake Balaton, Hungary (Zankai & Ponyi, 1971a); Finland (Eriksen, 1969); Romania (Rudescu, 1960); Reservoirs in Spain (Miracle, 1982); Lake Ormijärvi, S Finland (Cajander, 1983); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Impoundment Saldenbach, Germany (Althaus, 1976); Lake Königssee, Bavaria (Laxhuber, 1987); Knowsley Park, Liverpool, UK (Galliford, 1964); L. Stechlinsee, N Brandenburg, Germany (Kasprzak & Ronneberger, 1982; Ronneberger & Schönborn, 1985); Lake Biwa, Japan (Hillbricht-Ilkowska, 1983a & 1983b); ? Impoundment Kninicki, CSR (Kubicek, 1964); C Sweden (Pejler, 1965 & 1972); Darnsee near Epe, NW Germany (Koste, 1962); Lac Léman, Fr./CH (Martin, 1961; Balvay, 1989; Balvay & Laurent, 1981, 1989 & 1990a); Volgograd reservoir, R.F. (V'yushkova & Lakhnova, 1974); Gulf of Bothnia, Gulf of Finland, Baltic Sea (Bērziņš, 1960); All over Europe (Bērziņš, 1978); "Grote vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1986); "Kleine vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1989); Moat fort Merksem (Antwerp, Belgium) (De Smet *et al.*, 1987); Lake Donk, Overmere, Belgium (Dumont, 1968b); Rügener, Hiddenseer & Darsser Boddengegewässer, NE Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai, 1968); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Southwest islands of Japan (Sudzuki *et al.*, 1992); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Nat. Res. Oisterwijkse vennen & Lake De Wijde Blik, NL (Dresscher, 1976); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Lake Zürichsee, CH (Nipkow, 1961); Karelian inland waters, R.F. (Kutikova, 1965); Lake in C Sweden (Pejler, 1964); Black Sea (Rudescu, 1961); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); ? Lago Trasimeno, Italy (Taticchi, 1968); Spain: Viscaya; Portugal: Beja (Velasco, 1990); ? Lake Laacher See, Eifel, Germany (Eckartz-Nolden & Nolden, 1992)

- Nearctic region: Lake Michigan, USA (Stemberger, 1974); Wisconsin & Illinois, USA (Bērziņš, 1978); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); NW Canada (Chengalath & Koste, 1987); Arctic N America (Chengalath & Koste, 1989); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Laurentian Great Lakes (Stemberger, 1979); L. Hodges, San Diego County, California, USA (Nogrady, 1983); Morwich L., mt. Rainier Nat. Park, Washington State (Larson, 1973)

- Oriental region: Parakrama Samudra reservoir, Sri Lanka (Duncan, 1983a); ? Girikbe-tank, Sri Lanka (Bērziņš, 1982a); Malaysia, Singapore, Indonesia (Sudzuki, 1989); Singapore & Malaysia (Karunakaran & Johnson, 1978); Kalimantan (Borneo), Indonesia (Koste 1988a); Impoundment Kinda, C Burma (Koste &

Tobias, 1990)

- Australian region: Lakes in Australia (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); NSW, Aust. (Shiel & Koste, 1979)

- Neotropical region: Mato Grosso, Brazil (Turner & Da Silva, 1992); Embalse RioTercero Fish Culture Station, Cordoba Province, Argentina (Marinone & Zagarese, 1991); Araucarian lakes, W and E of the Andes, Chile (Thomasson, 1963b); Lake Llanquihuc, Chile (Campos *et al.*, 1988); Brokopondo Lake, Surinam (Leentvaar, 1979); Chile & Surinam (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Lake Todos los Santos, Chile (Campos *et al.*, 1990)

Collotheca polyphema Harring, 1914

- Palaeartic region: Southern States of USA (Koste, 1972f)

- Neotropical region: Amazonia, Brazil (Koste, 1972f); Brazil & Panama (Koste & José de Paggi, 1982); Panama (Collado *et al.*, 1984)

Collotheca quadrilobata (Hood, 1892)

- Palaeartic region: UK (Bērziņš, 1978); Lancashire & Norfolk, E England (Summerfield-Wright, 1961)

Collotheca quadrinodosa Summerfield-Wright, 1961

- Palaeartic region: UK (Bērziņš, 1978); Lancashire & Norfolk, E England (Summerfield-Wright, 1961)

Collotheca rasmae Bērziņš, 1951

- Palaeartic region: C Eur. plain (Bērziņš, 1978)

Collotheca regalis (Hudson, 1893)

- Nearctic region: Mud Pond, New Hampshire, USA (Wallace, 1977a)

Collotheca riverai Vilaclara & Sladeczek, 1989

- Nearctic region: Altiplanicie Central, Mexico (Vilaclara & Sladeczek, 1989)

Collotheca sessilis (Milne, 1905)

- Palaeartic region: UK (Bērziņš, 1978)

Collotheca spinata (Hood, 1893)

- Palaeartic region: UK (Bērziņš, 1978)

Collotheca stephanochaeta Edmondson, 1936

- Palaeartic region: UK (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Collotheca tenuilobata (Anderson, 1889)

- Palaeartic region: C Eur. plain & UK (Bērziņš, 1978); Ooypolder area, NL (Dresscher, 1976)

- Nearctic region: New Jersey, USA (Koste, 1972f)

- Australian region: Lake Catani, mt. Buffalo, Vic, Aust. (Bērziņš, 1982); Vic, Aust. (Shiel & Koste, 1985)

- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Amazonia, Brazil (Koste, 1972f); Brazil (Koste & José de Paggi, 1982); Rio Jatapu, Amazonia, Brazil (Koste & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Mato Grosso, Brazil (Turner & Da Silva, 1992); Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente & Costa (Koste & Böttger, 1992)

Collotheca thunmarki Bērziņš, 1951

- Palaeartic region: C Eur. plains (Bērziņš, 1978)

Collotheca torquiolobata (Thorpe, 1891)

- Palaeartic region: E Eur. plain, UK, NW Russian taiga (Bērziņš, 1978); Karelian inland waters, R.F. (Kutikova, 1965)

Collotheca trifidlobata (Pitcock, 1895)

- Palaeartic region: Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); C Eur. mountains, E Eur. plains, UK, NW Russian taiga (Bērziņš, 1978); Luka nad Olzon, near Ostrava, Silesia, CSR (Sladeczek, 1969); Dübener Heide, N Germany (Wulfert, 1961); Karelian inland waters, R.F. (Kutikova, 1965)

Collotheca trilobata (Collins, 1872)

- Palaeartic region: Lake Neusiedlersee, Austria (Donner, 1975 & 1979); River Ybbarpsån, Sweden (Bērziņš, 1979); Finland (Eriksen, 1969); Romania (Rudescu, 1960); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); NW Germany, England, Poland, Romania (Koste, 1970d); NW Germany (Koste, 1970g); Almost all over Europe (Bērziņš, 1978); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Peat bogs Graspets (Cantal) & Montcineyre (Puy-de-Dôme), France (Francez, 1984a); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984b)

- Nearctic region: Canada (Chengalath, 1977); Illinois, USA (Bērziņš, 1978); Kingston, Ontario, Canada (Nogrady, 1989)

- Oriental region: Delhi, India (Sarma, 1988)

- Australian region: SW Aust. (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); Qld, Aust.

(Shiel & Koste, 1979); NW Australia: Magela Creek floodplain (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984)

Collotheca tubiformis Nipkow, 1961

- Palaearctic region: Lake Zürichsee, CH (Nipkow, 1961)

Collotheca undulata Sladeczek, 1969

- Palaearctic region: Luka nad Olzan, near Ostrava, Silesia, CSR (Sladeczek, 1969); C Eur. mountains (Bērziņš, 1978)

Collotheca vargae Nogrady, 1976

- Palaearctic region: Lac Echo, Québec, Canada (Nogrady, 1976)

Collotheca volutata Sebestyen & Varga, 1950

- Palaearctic region: Hungarian plain & Pontic province (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); Romania (Rudescu, 1960)

Collotheca volutata Sebestyen & Varga, f. *sessilis* Sebestyen, 1957

- Palaearctic region: Lake Balaton, Hungary (Zankai, 1968); Hungarian plain (Bērziņš, 1978)

Collotheca wiszniewski Varga, 1938

- Palaearctic region: Romania (Rudescu, 1960); Lake Balaton, Hungary (Zankai, 1968); Hungarian plain, Pontic province, C Eur. plain (Bērziņš, 1978)

Collotheca wiszniewski Varga, f. *venusta* Bērziņš, 1951

- Palaearctic region: C Eur. plain (Bērziņš, 1978)

Collotheca spec.

- Palaearctic region: Lake Naardermeer, NL (Dresscher, 1976); Loosdrecht Lakes, NL (Van Tongeren *et al.*, 1992); Highly eutrophic Lake Czarna Kuta, Poland (Brinska *et al.*, 1976); Lake Bielersee, CH (Berner-Fankhauser, 1986); Middle course river Po, Italy (Ferrari *et al.*, 1986); Po river, Italy (Ferrari *et al.*, 1989); Banyoles Lake, NE Spain (Miracle, 1974 & 1975); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Moor Skopun, Faröer Islands (De Smet *et al.*, 1988); Lake Kinneret, Israel (Serruya & Pollingher, 1984; Landau *et al.*, 1988); Peat pits in Finland (Selin & Koskinen, 1988); Jotunheimen, high mountain in Norway (Blakar & Jacobsen, 1979); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); Lake Buchseen (Bodensee) (Einsle, 1966); Lake Mindersee (Bodensee) (Einsle, 1967); R. Svatka, near impoundment Kninicki, CSR (Kubicek, 1964); 2 species in Edgeøya, Svalbard (De Smet *et al.*, 1988b); Lake Numasawa, Japan (Sudzuki *et al.*, 1989); Lake Balaton, Hungary (Zankai & Ponyi, 1970); Lake Sempachersee, CH (Zimmermann, 1974); Azibo reservoir, near Porto, Portugal (Vascoucelos, 1990); Lake Mälaren, Sweden (Grönberg, 1975); Lac d'Aydat, Massif Central, France (Oulad Ali *et al.*, 1990); Lake Donk, Overmere, Belgium (Martens, 1985); Southwest islands of Japan (Sudzuki *et al.*, 1992); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); River Elbe estuary, Germany (Schulz, 1961); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Bog pond near Budapest, Hungary (Nogrady, 1962); Middle course of river Loire, France (Lair & Sargos, 1981); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Lakes N of Bucarest, Romania (Godeanu, 1969b); Lake Hecklan, C Sweden (Olsson *et al.*, 1992); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); R. Loire, in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Lake Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Fukushima Prefecture, Japan (Sudzuki, 1982)

- Nearctic region: Near Wilmer, B.C., Canada (Bērziņš, 1961); Wisconsin & Kentucky, USA (Bērziņš, 1984); Lake 382, exper. lake area, NW Ontario, Canada (Malley & Chang, 1991); Experimental ponds, C Florida, USA (Fry & Osborne, 1980); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Lake Oglethorpe, NE Georgia, USA (Orcutt & Pace, 1984); Mirror Lake, New Hampshire, USA (Strayer, 1985); Carter L. & Redrock L., N Colorado, USA (Thomasson, 1964b); L. Waccama, N Colorado, USA (Thomasson, 1963a)

- Oriental region: Swamp near Menggala, Sumatra (Bērziņš, 1982a); Taiwan (Sudzuki, 1988 & 1991); Bung-Borapet, C Thailand (Koste, 1975a); Shallow lake Phewa Tal, near city of Pokhara, Nepal (Daems & Dumont, 1974); Parakrama Samudra, Sri Lanka (Duncan & Gulati, 1981); Reservoir Parakrama Samudra, Sri Lanka (Duncan, 1984); Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976); Lake Ohan, South Island, New Zealand (Stout, 1978)

- Neotropical region: Lake Cocibolca, Nicaragua (Moreno *et al.*, 1992); Chile (Löffler, 1962); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992); Araucarian lakes, W of the Andes, Chile (Thomasson, 1963b); Argentine Patagonia (Kuczynski, 1987b); S Brazil (Arcifa, 1984); Surinam (Leentvaar, 1975); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1978a); Argentina (Modenutti & Claps, 1988); Orinoco river basin, Venezuela (Vasquez, 1984); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Provinces in NW Argentina (José de Paggi, 1989); Amazonia, Brazil (Koste, 1972f); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Island of Maraca, Roraima, Brazil (Koste

& Robertson, 1990); Near Concepcion, Paraguay (Koste, 1986b); Galapagos Islands (De Smet, 1987 & 1989); Prov. Chubut, Rio Negro, Neuquen & San Juan, Argentina (José de Paggi, 1990); Lake Monte Alegre, SE Brazil (Arcifa *et al.*, 1992)

- Antarctic region: Southern Victoria Land lakes, Antarctica (Cathey *et al.*, 1981)

Colurella Bory de St. Vincent, 1824

Colurella adriatica Ehrenberg, 1831

- Palaearctic region: Steppic waters, Spain (Miracle, 1982); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of r. Danube, Romania (Godeanu & Zinevici, 1983); Slovenia, ex-Yugoslavia (Markic, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Loch Leven, Scotland (May, 1986); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); L. Stechlinsee, N Brandenburg, Germany (Kasprzak & Ronneberger, 1982; Althaus, 1963; Ronneberger & Schönborn, 1985); Near Asperg, Württemberg, Germany (Klement, 1960); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); ? La Mancha, Castell., Spain (Armengol *et al.*, 1975); L. Bodensee, near Konstanz (Koch-Althaus, 1962); River Klyas'ma, R.F. (Bogoslawski, 1961); River Ybbarpsån, Sweden (Bērziņš, 1979); Afghanistan (Bērziņš, 1961); Lake Palaeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Sea and rock pools in S Finland (Björklund, 1972a); Coast of Norway (Eriksen, 1968); Finland (Eriksen, 1969); River Loire, France (Lair, 1980); Edgeøya, Svalbard (De Smet *et al.*, 1988b); Bjørnøa (Bear Island), Svalbard (De Smet, 1988); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Minorca, Spain (de Manuel, 1990); Darnsee near Epe, NW Germany (Koste, 1962); River Hase, NW Germany (Koste, 1976b); L. Dümmer, NW Germany (Koste & Poltz, 1983 & 1984); L. Alfsee, NW Germany (Koste & Poltz, 1987); Romania (Rudescu, 1960); Island Hopen, Svalbard Archipelago (De Smet, 1990); All over the Netherlands (Dresscher, 1976); Roscoff, Atlantic Coast of Brittany, France (D'Hondt, 1970); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Temporary waters in the Bucegi mts., Rom. (Godeanu, 1969a); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Near waterworks at Okocim, Poland (Klimowicz, 1975); Anatolia, Turkey (Segers *et al.*, 1992); River and valley in the Tatra mountains, Poland (Madalinski, 1961); Karelian Inland waters, R.F. (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Black Sea (Rudescu, 1961); Pond Heinrichweiher, Bonn, Germany (Reck, 1981); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Parczew area peat bogs, Poland (Radwan, 1974); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Mickletown lagoon, Lower Aire valley, UK (Ruttner-Kolisko, 1979); Pond in Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Mt. Fuji area, Japan (Sudzuki, 1978a); Lakes around mt. Fuji, Japan (Sudzuki, 1971); Lago Trasimeno, Italy (Taticchi, 1968); All over Spain; Balears (Velasco, 1990); Gravel pits along river Meuse, NL (Wibaut-Isebree Moens, 1964); Lake Biwa-ko, Japan (Yamamoto, 1960b); River Cerna basin, Romania (Brezeanu & Marinescu-Popescu, 1964); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-73); Lake Volvi, Macedonia, Greece (Zarfdjian *et al.*, 1990); River Grabia basin, Poland (Pawlowski, 1968, 1970 & 1973); Rügener, Hiddenseer & Darsser Boddengewässer, NE Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Mt. Fuji, Japan (Sudzuki, 1971); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976; Coussement & De Henau, 1975); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Camargue, S France (De Ridder, 1960a & 1961); All over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); N, W, S and C Iceland (De Ridder, 1972); Small brackish pools in E Iran (Ruttner-Kolisko, 1964); Sea and rock pools in S Finland (Björklund, 1972a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Japanese inland waters (Yamamoto, 1960a); Inundation area of r. Danube near Vienna and Alpine brooks, Austria (Donner, 1971); Shore of dammed or flowing stretches of river Danube, at the German-Austrian border (Donner, 1972); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Lakes N of Bucarest, Romania (Godeanu, 1969b); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lake Neusiedlersee, Austria (Donner, 1972 & 1979); Nat. Res. Ordesa & surroundings, C Pyrenees, Spain (De Ridder, 1964); Saltmarsh of Puerta da Pollensa, Majorca, Spain; Brackish waters and salinas of Alcudia Bay, *ibid.* (De Ridder, 1967c); Brackish waters in the Lorraine orientale, France (De Ridder, 1969a); SW Iceland (De Ridder, 1966a); Thingvellir area, ponds near Budir & L. Myvatn, Iceland (De Ridder, 1967a); Budir and surroundings, Iceland (De Ridder, 1969b); Eau Blanche in Aublain, Belgium (De Ridder, 1980); All over Belgium (De Ridder, 1986); Lake Konstanz, Germany (Walz *et al.*, 1987); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany

(Schulz, 1961); Peat bog Laptici, Bucegi mountains, Romania (Godeanu, 1970a); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b)

- Nearctic region: NW Canada (Chengalath & Koste, 1987); Altiplanicio Central, Mexico (Vilaclara & Sladeczek, 1989); Canada (Chengalath, 1977); Illinois & Missouri, USA (Bērziņš, 1978); Arctic N America (Chengalath & Koste, 1989); Lac Echo, Québec, Canada (Nogrady, 1976)

- Oriental region: Singapore & Malaysia (Karunakaran & Johnson, 1978); India (Sharma & Michael, 1980); Thailand, Malaysia, Singapore, India (Sudzuki, 1989); Thailand (Boonsom, 1984b); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985); Bangkok, Thailand (De Ridder, 1971)

- Australian region: Tasmania (Koste & Shiel, 1987); L. Elingamite & Valley L., freshwater temperate Australian crater lakes (Green, 1981); In many localities in Australia (Bērziņš, 1978); SE Aust., S Aust., W Aust., Vic & Tasm. (Koste & Shiel, 1989); Boggy Creek, near St. Helens, S Tasmania (Koste, Shiel & Tan, 1988); Martin's Bay, New Zealand (Russell, 1960)

- Neotropical region: Provinces in NW Argentina (José de Paggi, 1989); Argentina (Koste & José de Paggi, 1982); L. Escondido, prov. Rio Negro, Argentina (Balseira & Modenutti, 1990); Prov. Chugbu, Rio Negro, Mendoza, San Luis, San Juan & Santiago del Estero, Arg. (José de Paggi, 1990); Caribbean part of the neotropical region (De Ridder, 1977); Argentine Patagonia (Kuczynski, 1987b); Argentina (Olivier, 1965); Araucarian lakes, E of the Andes + Araucarian pools and ponds, Chile (Thomasson, 1963b); Ecuador: Sierra (Koste & Böttger, 1989); Ecuador: Costa (Koste & Böttger, 1992)

- Antarctic region: Antarctica & Subantarctica (José de Paggi & Koste, 1984); Antarctica (Sudzuki, 1988)

Colurella adriatica Ehrenberg, f. *angusta* Donner, 1964

- Palaearctic region: Alps (Bērziņš, 1978); In periphyton of mosses and *Myriophyllum* in the Danube, and in some brooks of the Alps,); Austria (Donner, 1964); River Salzach and its tributaries, Austria (Donner, 1970)

Colurella adriatica Ehrenberg, f. *lata* Donner, 1964

- Palaearctic region: Alps (Bērziņš, 1978); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); River Salzach and its tributaries, Austria (Donner, 1970)

Colurella althausae De Ridder, 1977

- Neotropical region: Caribbean part of the neotropical region (De Ridder, 1977); Curaçao & Antilles (Koste & José de Paggi, 1982); Curaçao (Collado *et al.*, 1984)

Colurella anodonta Carlin, 1939

- Palaearctic region: Many localities in N Iceland (De Ridder, 1970); SW Iceland (De Ridder, 1966a); Thingvellir area; ponds near Budir; L. Myvatn, Iceland (De Ridder, 1967a); N, W and C Iceland (De Ridder, 1972); ? Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); Brackish waters in the Lorraine orientale, France (De Ridder, 1969a); Adriatic Sea (Riedl, 1970); Pool S of Trondheim, Norway (Thomasson, 1979); Serbian section of river Danube (Zivkovic, 1987); Spain (Velasco, 1990)

- Nearctic region: Illinois, USA (Bērziņš, 1978)

- Neotropical region: Caribbean part of the neotropical region (De Ridder, 1977); Jamaica & Antilles (Koste & José de Paggi, 1982); Curaçao & the Caribbean Islands (Collado *et al.*, 1984)

Colurella aqueducti Török, 1956

- Palaearctic region: Hungarian plain (Bērziņš, 1978)

Colurella colurus (Ehrenberg, 1830)

- Palaearctic region: Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Klyas'ma, R.F. (Bogoslawski, 1961); In saltmarshes of North and Baltic Sea (Bilio, 1966); Impoundment "Eisernes Tor", Danube, Rom. (Brezeanu & Peten, 1973); River Ybbarpsån, Sweden (Bērziņš, 1979); Small pond, Ny-Alesund, Svalbard (De Smet *et al.*, 1988); Lake Palaeostomi, Georgia, R. F. (Haberman & Laugaste, 1982); Sea and rock pools in S Finland (Björklund, 1972a); Coast of Norway (Eriksen, 1968); S Finland (Eriksen, 1969); River Loire, France (Lair, 1980); Isle of Sylt (Tzschaschel, 1963); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube (Prunescu-Arion, 1989; Godeanu & Zinevici, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); In activated sludge in Warsaw, Poland (Klimowicz, 1972b); N Swedish Lapland (Pejler, 1962a); Romania (Rudescu, 1960); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976); Courland Spit, R.F. (Zhadin *et al.*, 1972); All over Europe; Caucasus, Caspian area. Cosmopolitan (Bērziņš, 1978); Watershed between N Ice Sea and Atlantic Ocean; mountain slope between Blönduos & Akureiri; id. near Saudarkrokur, Iceland (De Ridder,

1970); N and W Iceland (De Ridder, 1972); Camargue, S France (De Ridder, 1960a & 1961); River Cerna basin, Romania (Brezeanu & Marinescu-Popescu, 1964); River Danube (Enaceanu & Brezeanu, 1970); Inundation area of Danube delta, Romania (Dorobantu, 1964); River Grabia basin, Poland (Pawlowski, 1960, 1968 & 1970); Rügener, Hiddenseer & Darsser Boddengewässer, NE Germany (Schwarz, 1963); Greifswalder Bodden, NE Germany (Spittler, 1969); Lake Balaton, Hungary (Zankai & Kertesz, 1967; Zankai, 1968); Peat bogs Chambédaze & La Godivelle, Puy-de-Dôme, France (Francez & Dévaux, 1985); Japanese inland waters (Yamamoto, 1960a); Central Asian area lakes, Mongolia (Dulma, 1979); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Shores of dammed or flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach and its tributaries, Austria (Donner, 1970); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Polder ditches in the Watergraafsmeer; pools in Zuid-Limburg; Nat. Res. "Het Hol" near Kortenhoeve; Nat. Res. Meyendel, NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1972d & 1979); SW Iceland (De Ridder, 1966a); Saltmarsh of Puerto de Pollensa, Majorca, Spain & brackish waters & salinas in Alcudia, *ibid.* De Ridder, 1967c); Brackish waters in the Lorraine orientale, France (De Ridder, 1969a); Budir and surroundings, Iceland (De Ridder, 1969b); 3 localities in Belgium (De Ridder, 1986); Etang des Monts Rosés, Sivry, Belgium (De Ridder, 1980); River Elbe estuary, Germany (Schulz, 1961); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog La Godivelle, Puy-de-Dôme, France (Francez, 1984c); Peat bog Laptici, Bucegi mountains, Romania (Godeanu, 1970a); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Canal Leeds-Liverpool, UK (Galliford, 1960b); Shores of the White Sea & the Barents Sea, R.F. (Ghilarov, 1967); Lakes N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Marshy zones in the Bucegi mountains, Rom. (Godeanu, 1969a); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Near waterworks at Okocim, Poland (Klimowicz, 1975); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Anatolia, Turkey (Segers *et al.*, 1992); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Baltic Sea (Rudescu, 1961); River & valley in the Tatra mountains, Poland (Madalinski, 1961); R. Moldova, tributary to the Danube, Rom. (Prunescu-Arion, 1968); Black Sea (Rudescu, 1961); Ostend harbour, Belgium (Persoone, 1964); R. Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Parzew area peat bogs, Poland (Radwan, 1974); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); L. Doiran, Macedonia, ex-Yugoslavia (Popovska-Stankovic, 1990); Fens in Genk, Belgium (Schepens, 1960); Inland sea round Kasado island, Japan (Sudzuki, 1976a & 1976b); Garden ponds in Japan (Sudzuki, 1975); Mt. Fuji area, Japan (Sudzuki, 1978a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Island Sylt, North Sea (Tzschaschel, 1979 & 1980); Lake Ohrid, Balkan peninsula (Stankovic, 1960); Scandinavian coastal waters (Thane-Fenchel, 1968); Serbian section of river Danube (Zivkovic, 1987); Spain: Barcelona, Madrid, Tarragona; Bal: Menorca (Velasco, 1990); Gent, tap water, Belgium (De Ridder, 1992); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973); Mt. Fuji, Japan (Sudzuki, 1971a)

- Nearctic region: Canada (Chengalath, 1977); Deggs Lake, Fentus L. & Highland L., Colorado, USA (Pennak, 1966); Wisconsin, USA (Bērziņš, 1978); Colorado, USA (Turner, 1988); Arctic N America (Chengalath & Koste, 1989); Florida saltwater psammon, USA (Turner, 1990b)

- Oriental region: Philippines (Mamaril & Fernando, 1978); Thailand, Indonesia, Philippines (Sudzuki, 1989); Bung-Borapet, C Thailand (Koste, 1975a); Singapore. Cosmopolitan (Sudzuki, 1991)

- Australian region: Rivers and mountains in Australia (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); Vic, Aust. & Tasmania (Koste & Shiel, 1989); Vic, Aust. (Shiel & Koste, 1985); Lincoln, New Zealand (Russell, 1960)

- Neotropical region: Argentina (Modenutti & Claps, 1988); Caribbean part of the neotropical region (De Ridder, 1977); Caroni river basin, Venezuela (Vasquez, 1984b); Colombia (Koste & José de Paggi, 1982); Bubali-pond, Aruba, Dutch Leeward Island (Higler & Van Halewijn, 1991); Prov. La Rioja, Argentina (José de Paggi, 1990); Aruba, Bonaire, Curaçao & Caribbean Islands (Collado *et al.*, 1984); Lago Valencia, Venezuela (De Infante, 1980)

- Antarctic region: Antarctica & Subantarctica (José de Paggi & Koste, 1984)

Colurella colurus (Ehrenberg), f. *compressa* Lucks, 1912

- Palaearctic region: C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Orog-nur, Gobi desert, Mongolia (Koste & Wulfert, 1964); River Hase, NW Germany (Koste, 1976b); Courland Spit, R.F. (Zhadin *et al.*, 1972); Almost all over Europe (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); Nat. Res. Meyendel; Nat. Res. "Het Hol"; Gerritsflesch near Kootwijk, NL (Dresscher, 1976); Karelian inland waters, R.F. (Kutikova, 1965); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

- Nearctic region: Colorado, USA (Turner, 1968); Florida saltwater psammon, USA (Turner, 1990b)

- Australian region: New Brighton, New Zealand & Chatham Islands (Russell, 1960)
- Neotropical region: Sierra & Costa, Ecuador (Koste & Böttger, 1992)
- Antarctic region: Antarctica (Dartnall & Hollowday, 1985)

***Colurella denticauda* Carlin, 1939**

- Palaearctic region: L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); N Swedish Lapland (Pejler, 1962a); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970)
- Nearctic region: Wisconsin, USA (Bērziņš, 1984)

***Colurella dicentra* (Gosse, 1887)**

- Palaearctic region: L. Veerse Meer & other brackish waters, NL (Dresscher, 1976); River Klyas'ma, R.F. (Bogoslawski, 1961); Sea and rock pools in S Finland (Björklund, 1972a); Coast of Norway (Eriksen, 1968); Finland (Eriksen, 1969); Shore of the White Sea, R.F. (Ghilarov, 1967); Almost all over Europe (Bērziņš, 1978); Romania (Rudescu, 1960); Rügener, Hiddenseer & Darsser Boddengewässer, NE Germany (Schwarz, 1963); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992); Brackish waters near Bruges, Belgium (De Ridder & Verheye, 1980; De Ridder, 1986); Black Sea (Rudescu, 1961); Island Sylt, North Sea (Tzschaschel, 1979); Scandinavian coastal waters (Thane-Fenchel, 1968); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973)
- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Florida saltwater psammon, USA (Turner, 1990b)
- Neotropical region: Bolivia (Koste & José de Paggi, 1982)

***Colurella gastracantha* Hauer, 1924**

- Palaearctic region: Peat bog Laptici, Bucegi mts., Romania (Godeanu, 1970); River Ybbarpsån, Sweden (Bērziņš, 1979); Almost all over Europe (Bērziņš, 1978); Romania (Rudescu, 1978); Lake Balaton, Hungary (Zankai, 1968); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Rhodos Island, Greece (Donner, 1971); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Shore of dammed or flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970a); Arampruya, S of Barcelona, Spain; La Palma & Madeira (Donner, 1970b); Nat. Res. Ordesa & surroundings, C Pyr., Spain (De Ridder, 1964); Iriomote island, Japan (Sudzuki, 1979); Beech forest of mt. Tanigawa, Japan (Sudzuki, 1977c); Mt. Fuji area, Japan (Sudzuki, 1978a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Spain: Barcelona & Huesca; Canarias; La Palma (Velasco, 1990)
- Neotropical region: Tropical forest near the coast, 70 km S of Rio, Brazil (Donner, 1980); In phytotelmata on Jamaica (Koste *et al.*, 1991)

***Colurella geophila* Donner, 1951**

- Palaearctic region: Sea and rock pools in S Finland (Björklund, 1972a); In activated sludge, Warsaw, Poland (Klimowicz, 1972b); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Courland Spit, R.F. (Zhadin *et al.*, 1972); Iberic peninsula, Alps, Balkan, Pontic province, C Eur. plain & NW Russian taiga (Bērziņš, 1978); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); La Roca, near Grandlers, N of Barcelona, Spain (Donner, 1970b); Romania (Godeanu, 1961); Mt. Fuji area, Japan (Sudzuki, 1978a); Spain: Barcelona (Velasco, 1990)
- Nearctic region: Everglades Nat. Park, Florida (Nogrady, 1983)
- Oriental region: Singapore (Sudzuki, 1989)
- Neotropical region: Brackish ponds on Great Bahama Island, West Indies (Nogrady, 1985); Costa, Ecuador (Koste & Böttger, 1992)

***Colurella geophila* Donner, f. *gracilis* Althaus, 1957**

- Palaearctic region: C Eur. plains (Bērziņš, 1978)
- Neotropical region: ? Taieri Beach, New Zealand (Russell, 1960)

***Colurella geophila* Donner, f. *hallensis* Althaus, 1957**

- Palaearctic region: C Eur. mountains (Bērziņš, 1978)

***Colurella geophila* Donner, f. *limnetica* Althaus, 1957**

- Palaearctic region: C Eur. mountains (Bērziņš, 1978)

***Colurella halophila* Wulfert, 1942**

- Palaearctic region: Pyrenees, Pontic province & Boreal highland (Bērziņš, 1978); Rügener, Hiddenseer & Darsser Boddengewässer, NE Germany (Schwarz, 1963); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Saltmarsh of Puerto de Pollensa, Majorca, Spain (De Ridder, 1967c)

***Colurella hindenburgi* Steinecke, 1917**

- Palaearctic region: Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id. + Nat. Res. "Het Hol" + Gote Huisven, NL (Dresscher, 1976); Lake Bodensee near Konstanz (Koch-Althaus, 1962); Lake Balaton,

Hungary (Zankai, 1984); C & S Sweden (Bērziņš & Pejler, 1987); Dübener Heide, N Germany (Wulfert, 1961); Romania (Rudescu, 1960); Edgeøya, Svalbard (De Smet *et al.*, 1988b); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Peat bogs in the "Massif Central", France (Batut, 1965); All over Europe (Bērziņš, 1978); Mt. Fuji lave caves, Japan (Sudzuki, 1971a); N Iceland (De Ridder, 1970 & 1972); Happy spring, Gyskusen-dô cave, Japan (Sudzuki & Hosoyama, 1991); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); Peat bogs in the Hohe Tatra mountains, CSR (Fott, 1960); Southwest islands of Japan (Sudzuki *et al.*, 1992); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez, 1984c & 1988; Francez & Dévaux, 1985); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); River Salzach and its tributaries, Austria (Donner, 1970); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Nat. Res. Ordesa & surroundings, C Pyrenees, Spain (De Ridder, 1964); Small river on Rhodos Island, Greece (De Ridder, 1967d); Plateau des Tailles, Belgium (De Ridder, 1980 & 1986); Peat bog Laptici, Bucegi mountains, Romania (Godeanu, 1970a); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); In reed borders of the Danube delta, Romania (Rudescu, 1968); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1968); ? Madeira (Donner, 1970b); Spain: Huesca; Portugal: Madeira (Velasco, 1990)

- Nearctic region: Mesotrophic fen in Newfoundland, Canada (Bateman & Davis, 1980); Canada (Chengalath, 1977); NE Canada: Newfoundland & Labrador (Chengalath & Koste, 1983)
- Oriental region: Singapore (Sudzuki, 1989); Taiwan. Cosmpolitan (Sudzuki, 1991)
- Australian region: Canterbury, New Zealand (Russell, 1960)
- Neotropical region: Argentina (Olivier, 1965; Koste & José de Paggi, 1982); Prov. Rio Negro, Argentina (José de Paggi, 1990); Puerto Ingles, island Masa Sierra, Chile (Donner, 1980)

***Colurella marinovi* Althaus, 1957**

- Palaearctic region: Black Sea (Rudescu, 1961); Pontic province of Europe (Bērziņš, 1978)

***Colurella monodactylos* Althaus, 1957**

- Palaearctic region: Black Sea (Rudescu, 1961); Pontic province of Europe (Bērziņš, 1978)

***Colurella oblonga* Donner, 1943**

- Palaearctic region: ? Darnsee near Epe, NW Germany (Koste, 1962); C Eur. mountains & plains (Bērziņš, 1978); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992); Spain: Tarragona (Velasco, 1990)

***Colurella oblonga* Donner, f. *glabra* Klement, 1959**

- Palaearctic region: Near Asperg, Württemberg, Germany (Klement, 1960); Alps & C Eur. plains (Bērziņš, 1978); River Salzach and its tributaries, Austria (Donner, 1970); Lake Neusiedlersee, Austria (Donner, 1979)

***Colurella obtusa* (Gosse, 1886)**

- Palaearctic region: N Swedish Lapland (Pejler, 1962a); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Romania (Rudescu, 1960); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Alpine lakes, Sierra Nevada, Spain (Morales-Baquero *et al.*, 1989); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); La Mancha, Cast., Spain (Armengol *et al.*, 1975); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Klyas'ma, R.F. (Bogoslawski, 1961); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1961); Freshwater S Finland (Björklund, 1972a); Coast S Finland (Eriksen, 1969); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Sierra Nevada, Spain (Morales-Baquero, 1987); District Ostrava, CSR (Dvorakova, 1960b); Man-made lake Zegrzynskie, Poland (Dusoge *et al.*, 1985); Near Asperg, Württemberg, Germany (Klement, 1960); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Lac d'Aydat, Massif Central, France (Oulad Ali *et al.*, 1990); Lake Donk, Overmere, Belgium (Dumont, 1968b; Coussement, 1976; Coussement & de Henau, 1975); Aral Sea spawning grounds, R.F. (Jerekeyev & Kazakhbayev, 1972); All over Europe; Caucasus, Caspian area, Cosm. (Bērziņš, 1978); Camargue, S France (De Ridder, 1960a & 1961); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Shore of the White Sea, R.F. (Ghilarov, 1967); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Marismas, Spain (De Ridder, 1962b); N and W Iceland (De Ridder, 1970 & 1972); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1964); Mt. Fuji, Japan (Sudzuki, 1971); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Sea and rockpools in S Finland (Björklund, 1972a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Japanese inland waters (Yamamoto, 1960a); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Shores of dammed or flowing stretches in the Danube, at the

German-Austrian border (Donner, 1972); Lake Wallsee and r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach and its tributaries, Austria (Donner, 1970); Dübener Heide, N Germany (Wulfert, 1960a & 1960b); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Pools in Z. Limburg; Nat. Res. Oisterwijkse vennen; ponds Venematen; former Zuidzee, now Ysselmeer, NL (Dresscher, 1976); Nat. Res. Ordesa and surroundings, C Pyrenees, Spain (De Ridder, 1964); Thingvellir area, Iceland (De Ridder, 1967a); Freshwaters near San Vicente Bay, Majorca, Spain (De Ridder, 1967c); Small river on Rhodos Island, Greece (De Ridder, 1967d); Brackish waters in the Lorraine orientale, France (De Ridder, 1969a); Budir and surroundings, Iceland (De Ridder, 1969b); Plateau des Tailles & Overmere, Belgium (De Ridder, 1980 & 1986); Lake Neusiedlersee, Austria (Donner, 1979); River Danube (Enaceanu & Brezeanu, 1970); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Peat bog Laptici, Bucegi Mountains, Rom. (Godeanu, 1970); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Marshy zones in the Bucegi mountains, Rom. (Godeanu, 1969a); New impoundments in the CSR (Kubicek, 1968); Anatolia, Turkey (Segers *et al.*, 1992); River Bistritza and its tributaries, Romania (Miron, 1960); Bog pond near Budapest, Hungary (Nogrady, 1962); Danube delta, Romania (Popescu-Marinescu & Zinevici, 1967); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); River Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); In reed borders of the Danube delta, Romania (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Pond in botanical garden, Gent, Belgium (Segers *et al.*, 1991b); Garden pond in Tokyo, Japan (Sudzuki, 1975); Fukushima Prefecture, Japan (Sudzuki, 1982); Mt. Fuji area, Japan (Sudzuki, 1978a); Peat bogs in the Caucasus (Tarnogradsky, 1961); Periphytic biota in sewages and park waters, Japan (Sudzuki, 1981); Lakes around mt. Fuji, Japan (Sudzuki, 1971); Pool S of Trondheim, Norway (Thomasson, 1979); Serbian section of river Danube (Zivkovic, 1987); Lago Trasimeno, Italy (Taticchi, 1968); Lao-shan mountains, China (Wulfert, 1968); All over Spain; Balears (Ibiza, Min., Maj.); Andorra (Velasco, 1990); Nat. Res. "Leiemeersen", Assebroek, Belgium Tap water, Gent, Belgium (De Ridder, 1992); Lake Biwa-ko, Japan (Yamamoto, 1960b); River Cerna basin, Romania (Brezeanu & Marinescu-Popescu, 1964); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973); Impoundment Twistetalsperre, Nordhessen, Germany (Meinel *et al.*, 1983)

- Nearctic region: Colorado, USA (Turner, 1988); Arctic N America (Chengalath & Koste, 1989); NE Canada (Newfoundland & Labrador) (Chengalath & Koste, 1983); NW Canada (Chengalath & Koste, 1987); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Mesotrophic fen in Newfoundland, Canada (Bateman & Davis, 1980); Canada (Chengalath, 1977); Wisconsin, Illinois & Kentucky, USA (Bērziņš, 1978); Cape Herschel, Ellesmere Island, NWT, Canada (Nogrady & Smol, 1989); Lakes at Santee, California, USA (Nogrady, 1982); Lac Echo, Québec, Canada (Nogrady, 1976); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Mont Tremblant prov. park, Québec, Canada (Nogrady, 1980); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); Laurentian Great Lakes (Stemberger, 1979); Massey L., 16 km N of Beaumont, Texas, USA (Marsh *et al.*, 1978)

- Oriental region: Taiwan (Sudzuki, 1968); Taiwan, Thailand, Malaysia, Singapore, Indonesia, India (Sudzuki, 1989); Singapore. Cosmopolitan (Sudzuki, 1991); Bung-Borapet, C Thailand (Koste 1975a); Danan Teleko, near Palembang, Sumatra (Bērziņš, 1982a); India (Sharma & Michael, 1980); Singapore (Karunakaran & Johnson, 1978); Lakelet Tan Daha, Kathmandu valley, Nepal (Daems & Dumont, 1974); Impoundment Kinda, C Burma (Koste & Tobias, 1990); 2 Kumaun Himalayan lakes (UP), India (Sharma & Pant, 1984 & 1985); Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976); Ricefields in NE Thailand (Heckman, 1979)

- Australian region: SW Australia (Koste, Shiel & Brock, 1983); Lake Euramoo, tropical Queensland & Valley Lake, freshwater temperate Australian crater lakes (Green, 1981); Pancontinental in Australia (Koste & Shiel, 1989); NSW, Qld & W Aust. (Shiel & Koste, 1979); NW Aust.: Magela Creek floodplain (Koste, 1981b); Alligator rivers system, NT, Aust. (Koste & Shiel, 1986b; Tait, Shiel & Koste, 1984); Tasmania (Koste & Shiel, 1986b); Lake Mc Gregor, New Zealand (Russell, 1960); Swamp near Dunedin & near Lake Hayes, S Island, New Zealand (Bērziņš, 1982a)

- Neotropical region: Brokopondo Lake, Surinam (Leentvaar, 1979); Argentine Patagonia (Kuczynski, 1987b); Amazonia, Brazil (Thomasson, 1961; Hauer, 1965b; Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Orinoco river basin, Venezuela (Vasquez, 1984a); Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1989 & 1992); Bolivia (Iltis *et al.*, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Panguana, Peru (Koste, 1988b); Near Concepcion, Paraguay (Koste, 1986b); Galapagos Islands (De Smet, 1987 & 1989); Argentina, Venezuela, Colombia, Brazil, Chile, Surinam, Panama & Honduras (Koste & J. de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Prov. Chubut & Rio Negro, Argentina (José de Paggi, 1990); Caribbean part of the neotropical region (De Ridder, 1972); Curaçao and Caribbean islands (Collado *et al.*, 1984); Argentina (Olivier, 1965); Araucarian lakes, W &

E of the Andes, Chile (Thomasson, 1963b); Mato Grosso, Brazil (Turner & Da Silva, 1992); Laguna Cocha Cashu, Amazonia, Brazil (Schaden, 1977c)

Colurella obtusa (Gosse), f. *aperta* Hauer, 1936

- Palaearctic region: All over Europe; Caucasus, Caspian area (Bērziņš, 1978)
- Neotropical region: Argentina (Koste & José de Paggi, 1982)

Colurella obtusa (Gosse), f. *clausa* Hauer, 1936

- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); All over Europe; Caucasus, Caspian area (Bērziņš, 1978)

Colurella obtusa (Gosse), f. *oxycauda* Carlin, 1939

- Palaearctic region: C Eur. plains (Bērziņš, 1978); Southwest islands of Japan (Sudzuki *et al.*, 1982); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); Andorra (Velasco, 1990)
- Oriental region: Prata-pura reservoir, near Baroda, India Nimeta waterworks, *ibid.* (Wulfert, 1966); India (Sharma & Michael, 1980; Sudzuki, 1989)
- Neotropical region: Argentina (Olivier, 1965; Koste & José de Paggi, 1982); Prov. Rio Negro, Argentina (José de Paggi, 1990); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

Colurella paludosa Carlin, 1939

- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); River Ybbarpsån, Sweden (Bērziņš, 1979); Moor Skopun, Faröer Islands (De Smet *et al.*, 1988); Romania (Rudescu, 1960); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); C Eur. mountains, Pontic province, C & E Eur. plains, Iceland, NW Russian taiga (Bērziņš, 1978); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978); N Iceland (De Ridder, 1970 & 1972); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Pool, S of Trondheim, Norway (Thomasson, 1979)

Colurella salina Althaus, 1957

- Palaearctic region: C Eur. plain (Bērziņš, 1978); Spain: Gerona (Velasco, 1990)
- Neotropical region: Lake Ellesmere, New Zealand (Russell, 1960)

Colurella sinistra Carlin, 1939

- Palaearctic region: Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Peat bogs in the Auvergne, France (Francez, 1981); Peat bogs Chambedaze & La Godivelle, (Puy-de-Dôme), France (Francez, 1984c; Francez & Dévaux, 1985); In reed borders of the Danube delta, Romania (Rudescu, 1968); Romania (Rudescu, 1960); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Small water bodies, Soviet Karelia, R.F. (Filimonova, 1976); Alps, C Eur. mountains & plains, Pontic province (Bērziņš, 1978); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps (Donner, 1964); River Salzach and its tributaries, Austria (Donner, 1970); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970)
- Neotropical region: Mesotrophic fen in Newfoundland, Canada (Bateman & Davis, 1980); Vinton County, Ohio, USA (Evans, 1984)
- Oriental region: Singapore (Karunakaran & Johnson, 1978)

Colurella subtilis Althaus, 1957

- Palaearctic region: C Eur. plain, Boreal highland, NW Russian taiga; Caucasus (Bērziņš, 1978)

Colurella sulcata (Stenroos, 1898)

- Palaearctic region: L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); C & E Eur. plains, NW Russian taiga (Bērziņš, 1978)
- Nearctic region: Canada (Chengalath, 1977); N America (Bērziņš, 1978)
- Oriental region: Nimeta waterworks, near Baroda, India (Wulfert, 1966); India (Sharma & Michael, 1980); Singapore & Malaysia (Karunakaran & Johnson, 1978); Indonesia & India (Sudzuki, 1989); Danan Teleko, near Palembang, Sumatra (Bērziņš, 1982a); Asia (Bērziņš, 1978)
- Neotropical region: Orinoco river basin, Venezuela (Vasquez, 1984a); Varzea near Santarem, Brazil (Koste, 1974b); Brazil (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Lago Cigana, Amazonia, Brazil (Schaden, 1977c)

Colurella tessellata (Glascott, 1893)

- Palaearctic region: River Ybbarpsån, Sweden (Bērziņš, 1979); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Romania (Rudescu, 1960); Mountain Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); Peat bogs in the Massif Central, France (Batut, 1965); C Eur. mountains, Hungarian plain, Pontic province, C and E Eur. plains, Ireland,

UK, NW Russian taiga (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id. + Nat. Res. "Het Hol" near Kortenhoeve, NL (Dresscher, 1976); N and W Iceland (De Ridder, 1970 & 1972); Japanese inland waters (Yamamoto, 1960a); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982); Tarn in Värmland, Sweden (Thomasson, 1970); Pool S of Trondheim, Norway (Thomasson, 1979)

- Nearctic region: Mesotrophic fen in Newfoundland, Canada (Bateman & Davis, 1980); Canada (Chengalath, 1977); N America (Bērziņš, 1978)

- Oriental region: Asia (Bērziņš, 1978); Indonesia (Sudzuki, 1989)

- Australian region: Creek in Vic, Aust. (Bērziņš, 1982); Coghill Creek, Tourello, Vic, Aust. (Koste & Shiel, 1989); Vic, Aust. (Shiel & Koste, 1985)

- Neotropical region: Lago Paroni, Brazil (Koste, 1974a); Venezuela (Koste & José de Paggi, 1982); Prov. Rio Negro, Argentina (José de Paggi, 1990); Argentina (Olivier, 1965); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b)

Colurella uncinata (O.F. Müller, 1773)

- Palaearctic region: Croatia, ex-Yugoslavia (Erben, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); District Ostrava, CSR (Dvorakova, 1960b); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Romania (Rudescu, 1960); Edgeøya, Svalbard (De Smet *et al.*, 1988b); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Baisse salée, Camargue, S France (Aguesse, 1960); Lake Bielersee, CH (Baugerter *et al.*, 1980; Berner-Fankhauser, 1986); "Altes Land" near Hamburg, Germany (Caspers & Heckman, 1981 & 1982; Heckman, 1986); Tingwall Loch, Mainland, Shetland (Bērziņš, 1982a); Freshwater, S Finland (Björklund, 1972a); Coast of Norway (Eriksen, 1968); S Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Darnsee near Epe, NW Germany (Koste, 1962); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Sphagnum bogs in the Massif Central, France (Batut, 1965); Lac Léman, Fr./CH (Balvay & Laurent, 1980a); All over Europe; Caucasus, Caspian area (Bērziņš, 1978); "Grote Vijver" fort 8, Hoboken (Antw.,

B) (De Smet *et al.*, 1986); "Kleine vijver" fort 8, *ibid.* (De Smet *et al.*, 1989); Moat fort Merksem (Antwerp, Belgium) (De Smet *et al.*, 1987); Rügener, Hiddenseer & Darszer Boddengewässer, NE Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Canals in Hran area, CSR (Terek, 1990c); Obretin lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); Lakes, N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Temporary waters in the Bucegi mts., Rom. (Godeanu, 1969a); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); River Bistritza and its tributaries, Romania (Miron, 1960); Danube delta, Romania (Popescu-Marinescu & Zinevici, 1967); River Moldova, tributary of the Danube, Rom. (Prunescu-Arion, 1968); Lac d'Annecy, France (Balvay & Druart, 1992); Sinaia, S Carpathes, Romania (Rodewald-Rudescu & Godeanu, 1961); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); Parzew area peat bogs, Poland (Radwan, 1974); River Volga, R.F. (Radwan, 1974); Pond in Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b); Pool, S of Trondheim, Norway (Thomasson, 1979); Serbian section of the Danube (Zickovic, 1987); Spain: Barcelona, Gerona, Huesca & Valencia (Velasco, 1990); Nat. Res. "Leiemersen", Assebroek, Belgium (De Ridder, 1992); River Cerna basin, Romania (Brezeanu & Marinescu-Popescu, 1964); Water near river Bodrog, NE Hungary (Dévai *et al.*, 1972-1973); Impoundment Twistetalsperre, Nordhessen, Germany (Meinel *et al.*, 1983); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Camargue, S France (De Ridder, 1960a & 1961); Sea and rockpools in S Finland (Björklund, 1972a); Southwest islands of Japan (Sudzuki *et al.*, 1992); Peat bogs in the Auvergne, France (Francez, 1988); Peat bog La Godivelle, Puy-de-Dôme, France (Francez, 1984c); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); Peat bogs Chambedaze & La Godivelle, (Puy-de-Dôme), France (Francez, 1988; Francez & Dévaux, 1985); Canal Isebek, Hamburg, Germany (Caspers & Schulz, 1960); Shores of dammed or flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach and its tributaries, Austria (Donner, 1972); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Pools in Zuid-Limburg; Nat. Res. "Het Hol" near Kortenhoeve; ponds Venematen; Maria- & Helenapeel, NL (Dresscher, 1976); Brackish waters in the Lorraine orientale, Fr. (De Ridder, 1969a); Budir & surroundings, Iceland (De Ridder, 1969b); Lake Neusiedlersee, Austria (Donner, 1979); Eeklo, Belgium (De Maeseneer, 1979; De Ridder, 1986); Lac Léman, Fr./CH (Naef & Martin, 1983); Lake Konstanz, Germany (Walz *et al.*, 1987); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Lake Idcub, river Danube delta, Romania (Godeanu, 1976); Peat bog Laptici, Bucegi mountains, Romania

(Godeanu, 1970); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b)

- Nearctic region: Cape Herschel, Ellesmere Island, NWT, Canada (Nogrady & Smol, 1989); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Canada (Chengalath, 1977); NE Canada (Newfoundland & Labrador) (Chengalath & Koste, 1983); Illinois & Kentucky, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); NW Canada (Chengalath & Koste, 1987); Mt. Tremblant prov. park, Québec, Canada (Nogrady, 1980); Bay of Quinte, Lake Ontario, Canada (Nogrady, 1988); Crater Lake, Arizona, USA (Green, 1986)

- Oriental region: Danan Teleko, near Palembang, Sumatra & Girikbe-Tank, Sri Lanka (Bērziņš, 1982a); Malaysia, Singapore, Indonesia (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Lakelet Tan Daha, Nepal (Daems & Dumont, 1974); Fishpond at Barrackpole, W Bengal St., India (Michael, 1968); Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976); Sri Lanka (Mendis & Fernando, 1962); Lake Manguao, Palawan, the Philippines (Davis & Green, 1990)

- Australian region: Lake Euramoo, tropical Queensland crater lake (Green, 1981); NSW, Qld, Vic, Aust. (Shiel & Koste, 1979); Pancontinental in Aust. (Koste & Shiel, 1989); In many localities in Aust. (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); SW Aust. (Koste, Shiel & Brock, 1983); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984)

- Neotropical region: Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1989); Ecuador: Oriente & Costa (Koste & Böttger, 1992); Araucarian lakes, E of the Andes, Chile (Thomasson, 1963b); Argentina (Olivier, 1965; Modenutti & Claps, 1988); Arroyo Rodriguez, prov. de Buenos Aires, Arg. (Modenutti, 1987); Provinces in NW Argentina (José de Paggi, 1989); Lago Paroni, Brazil (Koste, 1974a); Paraguay, Argentina, Brazil, Antilles, Surinam, Panama (Koste & José de Paggi, 1990); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Near Panguana, Peru (Koste, 1988b); Near Concepcion, Paraguay (Koste, 1986b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Prov. Chubut, Rio Negro, La Rioja & Catamarca, Argentina (José de Paggi, 1990); Caribbean Islands (Collado *et al.*, 1984); Argentine Patagonia (Kuczynski, 1987b); Amazonia, Brazil (Gillard, 1967; Hauer, 1965b; Thomasson, 1971); Brokopondo Lake, Surinam (Leentvaar, 1979); Antilles françaises (Pourriot, 1975); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Colurella uncinata (O.F. Müller), f. *bicuspidata* (Ehrenberg, 1832)

- Palaearctic region: Japanese inland waters (Yamamoto, 1960a); In activated sludge, Warsaw, Poland (Klimowicz, 1972b); Impoundment Kinicki, CSR (Kubicek, 1964); N Swedish Lapland (Pejler, 1962a); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); River Hase, NW Germany (Koste, 1966b); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Heiluntsian province, China (Boguslowki, 1962); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Afghanistan (Bērziņš, 1961); Coast of S Finland (Eriksen, 1969); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Near Asperg, Württemberg, Germany (Klement, 1960); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Lake Mikolajskie, Mazurian lakeland, Poland (Klimowicz, 1972); Romania (Rudescu, 1960); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Volga river, R.F. (V'yushkova & Lakhnova, 1974); All over Europe; Caspian area. Cosmopolitan (Bērziņš, 1978); Lower Silesia, Poland (Pawlowski, 1960); Lake Balaton, Hungary (Zankai, 1968); Camargue, S France (De Ridder, 1960a & 1961); Handzame Canal, Diksmuide, Belgium (De Ridder, 1960b); River Grabia basin, Poland (Pawlowski, 1960, 1968, 1970 & 1973); Southwest islands of Japan (Sudzuki *et al.*, 1992); Dübener Heide, N Germany (Wulfert, 1960a, 1960b & 1961); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id. + Nat. Res. "Het Hol" near Kortenhoef; former Zuiderzee, now Ysselmeer; Nat. Res. Meyendel, NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1979); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Sewage ponds near Czestochowa, Poland (Klimowicz, 1968); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); Small water bodies in the Mikolajskie area, Poland (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); Karelian inland waters, R.F. (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Lac d'Annecy, France (Balvay & Druart, 1992); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Etang de la Tour, Paris suburb, France (Pourriot, 1965); Serbian section of river Danube (Zivkovic, 1987); Lago Trasimeno, Italy (Taticchi, 1968); Pool in Keitao & mountains near Itung, China (Wulfert, 1968); Spain: Barcelona, Lerida, Oviedo, Valencia & Zamora (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b)

- Nearctic region: Canada (Chengalath, 1977); Wisconsin, Illinois, Kentucky & Missouri, USA (Bērziņš, 1984); Lac Echo, Québec, Canada (Nogrady, 1976); Laurentian Great Lakes (Stemberger, 1979); Walker Lake, Arizona, USA (Green, 1986); Jasper Lake, W North America (Thomasson, 1962)

- Oriental region: Indonesia & India (Sudzuki, 1989); India (Sharma & Michael, 1980); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Singapore. Cosmpolitan (Sudzuki, 1991); Impoundment Kinda, C Burma (Koste & Tobias, 1990); West Bengal, NE India (Sharma, 1979a); In a fishpond at Barrackpore, W Bengal St., India (Michael, 1968); Ricefields in NE Thailand (Heckman, 1979); Sri Lanka (Mendis & Fernando, 1962); Storage reservoir Ajwa, near Baroda, India (Wulfert, 1966)

- Australian region: Bromfield swamp & Valley Lake, Freshwater temperate Austr. crater lakes (Green, 1981); NSW & Vic, Aust. (Shiel & Koste, 1989); In many localities in Australia (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); Vic, Aust. (Shiel & Koste, 1985); Christchurch, New Zealand & Chatham Islands (Russell, 1960)

- Neotropical region: Brazil, Columbia, Chile, Argentina, Peru, Bolivia, Surinam, Panama (Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Prov. Rio Negro, Argentina (José de Paggi, 1990); Caribbean, Islands (Collado *et al.*, 1984); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971); Brokopondo Lake, Surinam (Leentvaar, 1979); Araucarian lakes, W and E of the Andes + Araucarian pools and ponds, Chile (Thomasson, 1963b); Mato Grosso, Brazil (Turner & Da Silva, 1992); Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1989 & 1992)

Colurella uncinata (O.F. Müller), f. *deflexa* (Ehrenberg, 1834)

- Palaeartic region: Serbian section of river Danube (Zivkovic, 1987); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Klyas'ma, R.F. (Bogoslowski, 1961); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); District Ostrava, CSR (Dvorakova, 1960b); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Romania (Rudescu, 1960); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); Almost all over Europe; Caucasus, Caspian area, Asia Minor (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Lake Wallsee & river Lobau, Austrian Danube basin (Donner, 1978); Shore of dammed & flowing stretches of the r. Danube, at the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970); Spain: Madrid (Velasco, 1990); Pond Sloterplas; Nat. Res. "Het Hol", near Kortenhoef; Zuiderzee, now Ysselmeer; Nat. Res. Meyendel, NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1979); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Boom, Belgium (De Ridder, 1986); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Parczew area peat bogs, Poland (Radwan, 1974)

- Nearctic region: Laurentian Great lakes (Stemberger, 1979)

- Oriental region: Impoundment Kinda, C Burma (Koste & Tobias, 1990); Ricefields in NE Thailand (Heckman, 1979)

- Australian region: In many localities in Australia (Bērziņš, 1982); Tasmania (Koste & Shiel, 1987); Qld, Aust. (Shiel & Koste, 1979); Qld, Aust. & Tasmania (Koste & Shiel, 1989); Martin's Bay, New Zealand (Russell, 1960)

- Neotropical region: Venezuela, Colombia, Brazil (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Prov. Santa Cruz & Jujuy, Argentina (José de Paggi, 1990); Argentina (Olivier, 1965); Laguna Cocha Cashu, Amazonia, Brazil (Schaden, 1977c)

Colurella uncinata (O.F. Müller), f. *ornata* Fadeev, 1927

- Palaeartic region: W & E Eur. plains (Bērziņš, 1978); River Meuse Liégeoise, Belgium (Baiverlin, 1984); Camargue, S France (De Ridder, 1960a & 1961); Mt. Fuji, Japan (Sudzuki, 1971b); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Mt. Fuji area, Japan (Sudzuki, 1978a); Periphytic biota in sewages and park waters, Japan (Sudzuki, 1981); Mt. Fuji lava caves, Japan (Sudzuki, 1971a)

Colurella unicauda Eriksen, 1968

- Palaeartic region: Near Bergen, Norway & near Tvärminne, S Finland (Eriksen, 1968); Zwin in Knokke, Belgium (De Ridder (1957) fide Eriksen, 1968); Camargue, S France (De Ridder, 1958); river mouth on Nova Zemlja (Idelson, 1926); Finland (Eriksen, 1969); Salt marsh near Borgarness, Iceland (De Ridder, 1970); W Iceland (De Ridder, 1972)

Colurella spec.

- Palaeartic region: Lough Erne system, NW Ireland (Gibson *et al.*, 1980); Lausitzer Neisze & Oder, Germany (Walter & Scharf, 1961); Shore of dammed & flowing stretches in the Danube, near the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970); Hamburg harbour, Germany (Tent, 1981); Lakes Zuidelijke Vechtplassen, NL (Leentvaar, 1969); All over the Netherlands (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1979); River Elbe estuary, Germany (Schulz, 1961); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Impoundment Weidatalsperre, E Thüringen, Germany (Hoffmann, 1966); Lowland brook-pond system at Boom, Belgium (Maes, 1985); Lac d'Aydat, Puy-de-Dôme, France (Persoone *et al.*, 1968); Hamburg area, Germany (Rühmann, 1961); Inland sea round Kasado island, Japan (Sudzuki, 1976a); Sandy beach in Bay of Tokyo, Japan (Sudzuki, 1977b); Ryukyu Shoto, Japan (Sudzuki, 1979b); Peats in the Caucasus (Tarnogradsky,

- 1961); Lake Dievegat, at the Belgian-Neerlandic border (Corijn, 1969); Middle course of river Po, Italy (Ferrari *et al.*, 1986); Po river, Italy (Ferrari *et al.*, 1989); Lake Donk, Overmere, Belgium (Dumont *et al.*, 1977); River Loire, France (Lair, 1980); Central Finland (Eloranta, 1982b); Lake Muy on Texel, Oerd on Ameland & Vogelmeer near Ymuiden, NL. (Leentvaar, 1963b); Laarder Wasmeer, Gooi, NL (Leentvaar, 1963c); Broads & peat pits in NW Overijssel (Schroevens, 1965); Norfolk Broads, UK (Irvine *et al.*, 1990); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Aral Sea spawning grounds, R.F. (Jerekeyev & Kazakhbayev, 1972); Reservoir Sedlice, near Zeliv, Bohemia, CSR (Sladeckova, 1960a & 1962); Reservoir Slapy, 30 km upstream from Prague, CSR (Sladeckova, 1960b); Canals in Hran area, CSR (Terek, 1990c); Canal de Séclin, Nord, France (Angeli, 1972); Dragon Pond & Happy spring, Gyskusen-dô cave, Japan (Sudzuki & Hosoyama, 1991); Chainjoin Lake, N Tibet (Williams, 1991); Etang de Hardy, SW France (De Ridder, 1967b)
- Nearctic region: Milwaukee harbour, USA (Stemberger, 1974); Wisconsin, USA (Bērziņš, 1978); Experimental ponds, C Florida, USA (Fry & Osborne, 1980); Little Rock Lake, Wisconsin, USA (Frost & Montz, 1985); Lake 382, exper. Lake Area, NW Ontario, Canada (Malley & Chang, 1991); Northern Michigan inland lakes, USA (Stemberger, 1990); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982)
 - Oriental region: Sri Lanka (Fernando, 1980a); Jamwa Ramgard freshwater res., Rajasthan, India (Gopal *et al.*, 1981); Lake Sat-Tal, Utar Pradesh, India (Pant *et al.*, 1985); Waltair coast, Madras, India (Rao & Ganapati, 1968); Storage reservoir Ajwa, near Baroda, India (Wulfert, 1966)
 - Australian region: Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980)
 - Neotropical region: Rapelreservoir, C Chile (Soto *et al.*, 1984); Surinam (Leentvaar, 1975); River Parana, Argentina (Paggi & J. de Paggi, 1974; José de Paggi, 1978a); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Lower Orinoco r. and its delta, Venezuela (Vasquez & Rey, 1989); Provinces in NW Argentina (José de Paggi, 1989); Amazonia, Brazil (Koste, 1972f); Araucarian lakes, W of the Andes, Chile (Thomasson, 1963b); Suape area, Pernambuco, Brazil (Neumann-Leitao *et al.*, 1992)
 - Antarctic region: Ablation Point area, Alexander Island, Antarctica (Heywood, 1977)

Conochilus Ehrenberg, 1834

Conochilus arboreus Rajendran, 1971

- Oriental region: India (Sharma & Michael, 1980); Malaysia & India (Sudzuki, 1989)

Conochilus coenobasis Skorikov, 1914

- Palaearctic region: Lakes in C Sweden (Pejler, 1964); Lakes in Estonia (Mäemets, 1983); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Brabantse Biesbosch, NL (Leentvaar, 1960); Romania (Rudescu, 1960); Lake Numasawa, Japan (Sudzuki *et al.*, 1989); Koyama-Ike, a coastal pond in Japan (Sudzuki & Fukuta, 1989); Carp ponds in S Poland (Zurek, 1980); Pontic province, W, C & E Eur. plains, Baltic province, Boreal highland, NW Russian taiga, Caspian area (Bērziņš, 1978); Serbian section of the Danube (Zivkovic, 1987); Spain: reservoirs (Velasco, 1990); Mt. Fuji, Japan (Sudzuki, 1971a); Etang du Brochet, Rambouillet, France (Pourriot *et al.*, 1969); Southwest islands of Japan (Sudzuki *et al.*, 1992); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Nat. Res. Oisterwijkse vennen & Brabantse Biesbosch, NL (Dresscher, 1976); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); 3 lakes in C Sweden (Pejler, 1962d); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Rés. biol. Villars-la-Dombes, France (Rostan, 1976); River Loire in St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Ponds and pools in the Paris suburb, France (Pourriot, 1965); Mt. Fuji area, Japan (Sudzuki, 1978a); Japanese inland waters (Yamamoto, 1960a)
- Nearctic region: NE Canada: Newfoundland & Labrador (Chengalath & Koste, 1983); Illinois, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Northern Michigan inland lakes, USA (Stemberger, 1990); Near Monroe, Louisiana, USA (Gallagher, 1966); Singletary Lake, N Carolina, USA (Thomasson, 1963a)
- Oriental region: Lake Ra-Ra, W Nepal (Okino & Satoh, 1986); Taiwan (Sudzuki, 1988); Taiwan, Malaysia, Singapore (Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Singapore & Taiwan. Cosmopolitan (Sudzuki, 1991)
- Australian region: Taylors Lake, Victoria, Aust. (Bērziņš, 1963); Lake Catani, Mt. Buffalo, Aust. (Bērziņš, 1982); ? Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); Vic, Aust. (Shiel & Koste, 1979); Saddle Hill Pond, New Zealand (Byars, 1960); Dunedin, New Zealand (Russell, 1960)
- Neotropical region: Mato Grosso, Brazil (Turner & Da Silva, 1992); Rio Tocantins & Rio Negro, Amazonia, Brazil (Schaden, 1977c)

Conochilus deltaicus Rudescu, 1960

- Palaearctic region: Romania (Rudescu, 1960); Pontic province of Europe (Bērziņš, 1968)

Conochilus dossuarius Hudson, 1885

- Palaearctic region: Lake Balaton, Hungary (Zankai, 1968); Luka nad Olzan, near Ostrava, Silesia, CSR (Sladeczek, 1969); Karagöl, near Izmir, Turkey (Ustaoglu, 1986); Lake Kus, Turkey (Ustaoglu & Balik, 1990a); L. Giulianello, Latium, Italy (Stella & Margaritora, 1972; Ferrara & Margaritora, 1977); Japanese inland waters (Yamamoto, 1960a); Impoundment Riveris, near Trier, Germany (Schnitzler, 1971); Funadai-ike pond, Chiba, Japan (Urabe, 1992); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); River Danube (Enaceanu & Brezeanu, 1970); 3 lakes in C Sweden (Pejler, 1962d); Ponds of Oltina, SE Dobrodea, Romania (Popescu-Gorj & Costea, 1961); Portugal: Setubal (Velasco, 1990); Dozmary Pool, Bodmin Moor, Cornwall, UK (Galliford, 1967); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Serbian section of river Danube (Zivkovic, 1987); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lake Biwa, Japan (Hillbricht-Ilkowska, 1983a); C Sweden (Pejler, 1972); Romania (Rudescu, 1960); Lake Numasawa, Japan (Sudzuki *et al.*, 1983); Darnsee near Epe, NW Germany (Koste, 1962); Volga river, R.F. (V'yushkova & Lakhnova, 1974); All over Europe. Cosmopolitan (Bērziņš, 1978); "Kleine vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1989); Krivoy Rog regional power plant, Ukraina (Sergeyeva *et al.*, 1989); Lower delta of river Volga (Chuykov, 1981); Lake Volvi, Macedonia, Greece (Zarfdjian, 1990); Ogochu reservoir, NW Tokyo, Japan (Urabe, 1990); 3 lakes of Sosnowickie, Poland (Radwan, 1968)

- Nearctic region: NW Canada (Chengalath & Koste, 1987); Lakes Adirondack, NY State, USA (Siegfried *et al.*, 1984 & 1989); Colorado, USA (Turner, 1988); Arctic N America (Chengalath & Koste, 1989); Great Dismal Swamp, border Virginia-N Carolina, USA (Anderson, Benfield & Buikema, 1977); Eutrophic small lake in Vermont, USA (Bogdan *et al.*, 1980); Canada (Chengalath, 1977); Mirror Lake, New Hampshire, USA (Makarewicz & Likens, 1975 & 1979); Lake Huron, USA (Stemberger & Bogdan, 1980); Star Lake, Norwich, Vermont, USA (Starkweather & Bogdan, 1980); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Dean's pond, Athens, Georgia, USA (Schoenberg, 1990); Northern Michigan inland lakes (Stemberger, 1990); Mt. Tremblant Prov. Park, Québec, Canada (Nogrady, 1980); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); Laurentian Great Lakes (Stemberger, 1979); ? Lake Ontario, Canada (Nauwerck, 1978); Lake 122 & L.132, NW Ontario, Canada (Schindler & Novén, 1971)

- Oriental region: Nimeta waterworks, near Baroda, India (Wulfert, 1966); Sri Lanka (Fernando, 1980a); Lake Parakrama, Sri Lanka (Fernando, 1984); Philippines (Mamaril & Fernando, 1978); Singapore (Karunakaran & Johnson, 1978); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia, Singapore, Indonesia, Sri Lanka, India, Philippines (Sudzuki, 1989); Near Nagpur, India (Arora, 1962b & 1966c); Girikbe-Tank, Sri Lanka (Bērziņš, 1982a); India (Sharma & Michael, 1980); L. Lano, island Mindanao, Philippines (Lewis, 1977); Kalimantan (Borneo), Indonesia (Koste, 1988a); Sri Lanka. Fairly common; found in ponds (Chengalath, Fernando & Koste, 1973); Impoundment Kinda, C Burma (Koste & Tobias, 1990); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); Lake Toba & L. Lanao (Serruya & Pollingher, 1984)

- Australian region: NSW, S Aust., Vic & Qld, Aust. (Shiel & Koste, 1979); Lower R. Murray, S Aust. (Shiel, Walker & Williams, 1982); E Australia (Koste & Shiel, 1980b); Ponds in Tasmania (Shiel, Koste & Tan, 1989); 2 reservoirs in Australia (Bērziņš, 1982); Billabongs river Murray, S Aust. (Shiel & Koste, 1983); Reservoirs in SE Aust. (Shiel *et al.*, 1987); Tasmania (Koste & Shiel, 1987); River Murray, Aust. (Koste, 1979b); NW Aust.: Magela Creek floodplain (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); River Murray at Mannum, S Aust (Shiel, 1979; Koste, 1980); Darling river, S Aust. (Shiel & Walker, *s.d.*); Rivers & billabongs of the Murray-Darling system (Shiel, 1986); Billabongs in the Murray r. floodplain, NSW, A. (Hillman & Shiel, 1991)

- Neotropical region: Lago do Macaco, Brazil (Koste, 1989a); Surinam (Leentvaar, 1975); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979-1980); Orinoco river basin, Venezuela (Vasquez, 1984a); Lower Orinoco & its delta, Venezuela (Vasquez & Rey, 1989); Lago Açu, Maranhão, Brazil (Reid & Turner, 1988); Venezuela, Brazil, Surinam, Honduras (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Panguana, Peru (Koste, 1988b); Chilean lakes (Schmid-Araya, 1991); Lake Izabal, Guatemala (Brinson & Nordlie, 1975); ? Lake Monte Alegre, SE Brazil (Arcifa *et al.*, 1992); Lago do Castanho, C Amazonia, Brazil (Schaden, 1977b); Embalse Rio Tercero Fish Culture Station, Cordoba Province, Argentina (Marinone & Zagarese, 1991); Costa Rica & Trinidad (Collado *et al.*, 1984); Lago do Passarinho, L. Jarucui, L. Lago do Castanho, Amazonia, Brazil (Moratu & Schaden, 1977c); L. Castanho, L. Redondo, L. Jacaretinga & L. Taruma-Mirim (Serruya & Pollingher, 1984); Lake Asososca, Nicaragua (Moreno *et al.*, 1992)

Conochilus dossuarius Hudson, f. *asetosus*, Arora, 1962

- Oriental region: Nagpur, India (Arora, 1962a); India (Sharma & Michael, 1980; Sudzuki, 1989)

Conochilus exiguus Ahlstrom, 1938

- Nearctic region: Ontario, Canada (Chengalath & Fernando, 1973); Canada (Chengalath, 1977); Ontario, Canada (Chengalath *et al.*, 1971); Lake Wabamu, Alberta, Canada (Gallup & Hickman, 1975)
- Conochilus hippocrepis*** (Schrank, 1803)
- Palaearctic region: Lakes S Sweden (Arnemo *et al.*, 1968); Small lakes in Estonia (Haberman & Mäemets, 1985); Lake Bielersee, CH (Berner-Fankhauser, 1986); Slapy reservoir, CSR (Brandl & Fernando, 1981); Grasmere Lake, Lake District, UK (Elliott, 1977); Lakes in Estonia (Haberman, 1978; Mäemets, 1983); Jotunheimen, Nordish high mountain (Blakar & Jacobsen, 1979); Finland (Eriksen, 1969); Lake Numasawa, Japan (Sudzuki *et al.*, 1983 & 1989); Lake Glubokoje, near Moscow, R.F. (Matveeva, 1983 & 1986); C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); District Ostrava, CSR (Dvorakova, 1960b); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Lake Kisajna, Mazurian lakeland, Poland (Klimowicz, 1964); L. Mikolajskie & L. Sniardwy, *ibid.* (Kisicki, 1960); Romania (Rudescu, 1960); Lakes C Sweden (Pejler, 1965 & 1964); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germany (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); Lake Mälaren, Sweden (Grönberg, 1975); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Volga river, R.F. (V'yushkova & Lakhnova, 1974); Soviet Karelia, R.F. (Filimonova, 1976); Lake Ladoga, R.F. (Nikolayev & Petrova, 1978); All over Europe. Cosmopolitan (Bērziņš, 1978); Kiev reservoir, R.F. (Polishchuk, 1987); Experimental fishponds near Warsaw, Poland (Spodniewska, 1966); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Lake Balaton, Hungary (Zankai, 1968); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Lakes Pavin, Chauvet, Montcineyre, P.d.D., Fr. (Persoone *et al.*, 1968); Pool, pond & peat bogs in the Paris suburb, Fr. (Pourriot, 1965); Tarn in Värmland, Sweden (Thomasson, 1970); Serbian section of river Danube (Zivkovic, 198); Spain: reservoirs (Velasco, 1990); Gulf of Finland & Belt Sea (Bērziņš, 1960); N and W Iceland (De Ridder, 1970 & 1972); Lake Kaulygel, Caucasus, R.F. (Kasymov, 1981); Dübener Heide, N Germany (Wulfert, 1960b & 1961); Japanese inland waters (Yamamoto, 1960a); Lough Erne system, NW Ireland (Gibson *et al.*, 1980); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Frankenland & Oberbayern, Germany (Tiefenbacher, 1972); Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Lake Nimetön, S Finland (Arvola *et al.*, 1986); Waldviertel area, lower Austria (Naidenow & Wawrik, 1984); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id. + Ooypolder area; Lindevallei; Lakes Vechtplassen, NL (Dresscher, 1976); River Danube (Enaceanu & Brezeanu, 1970); New impoundments in the CSR (Kubicek, 1968); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Lake Baikal, R.F. (Kozhov, 1963); Lake Erken, Sweden (Nauwerck, 1963); Karelian inland waters, R.F. (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Black Sea (Rudescu, 1961); Ponds of Oltina, SE Dobrogea, Romania (Popescu-Gorj & Costea, 1961); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); 3 lakes of Sosnowickie, Poland (Radwan, 1969); River Volga, R.F. (Mordukhai-Boltovskoi, 1979)
- Nearctic region: Lakes in the Churchill Falls area, Labrador, Canada (Duthie & Ostrovsky, 1974); ? Lake 122, NW Ontario, Canada (Schindler & Novén, 1971); Great Dismal Swamp, border Virginia-N Carolina, USA (Anderson, Benfield & Buikema, 1977); Canada (Chengalath, 1977); Ontario, Canada (Chengalath & Fernando, 1973); NE Canada (Newfoundland & Labrador) (Chengalath & Koste, 1983); Gwendoline Lake, near Vancouver, B.C., Canada (Neill, 1984); Wisconsin & Illinois, USA (Bērziņš, 1984); Cap Breton Island, Nova Scotia, Can. (Chengalath & Koste, 1988); NW Canada (Chengalath & Koste, 1987); Lake Washington, USA (Edmondson & Litt, 1987); Acid lakes in Maine, USA (Brett, 1989); Arctic N America (Chengalath & Koste, 1989); 18 arctic and subarctic lakes in Canada (Moore, 1978); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Lac Echo, Québec, Canada (Nogrady, 1976); Mt. Tremblant prov. park, Québec, Canada (Nogrady, 1980); Long Lake, N Canada (Moore, 1980); Pleasant L., Merrimack, N Hampshire, USA (Wallace & Starkweather, 1985); Laurentian Great Lakes (Stemberger, 1979); Par Pond, S Carolina, USA (Oden, 1979); Near Monroe, Louisiana, USA (Gallagher, 1966)
- Oriental region: India (Sharma & Michael, 1980); Singapore & Malaysia (Karunakaran & Johnson, 1978); Singapore & India (Sudzuki, 1989); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1985); Madurai, S India (Michael, 1968); Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969)
- Australian region: Reservoir in Australia (Bērziņš, 1982); Billabongs river Murray, S Aust. (Shiel & Koste, 1983); L. Purrumbete, freshwater temperate crater lake (Green, 1981); Qld & Vic, Aust. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); River Murray, S Aust. (Koste, 1979b); River Murray at Mannum, S Aust. (Koste, 1980); S Tasmania; Qld & Vic, Aust. (Koste, Shiel & Tan, 1988); Waikakahi, New Zealand (Russell, 1960)
- Neotropical region: Amazonia, Brazil (Koste, 1972f); Paraguay, Argentina, Brazil, Venezuela, Uruguay & Panama (Koste & José de Paggi, 1982); Panama (Collado *et al.*, 1984); Prov. Corrientes & Santa Fé, Argentina (José de Paggi, 1990); ? Tierra del Fuego, Argentina (Olivier, 1965)
- Conochilus madurai*** Michael, 1966
- Oriental region: India (Sharma & Michael, 1966; Sudzuki, 1989)

Conochilus natans Seligo, 1900

- Palaearctic region: Impoundments Saidenbach & Neunzehnhain, Germany (Althaus, 1976); Slapy reservoir, CSR (Brandl & Fernando, 1981); Finland (Eriksen, 1969); District Ostrava, CSR (Dvorakova, 1960b); L. Stechlinsee & L. Nehmitzsee, Brandenburg, G (Kasprzak & Ronneberger, 1982); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Impoundment Kninicki, CSR (Kubicek, 1964); Lake Mälaren, Sweden (Grönberg, 1975; Lanner & Pejler, 1973); L. Mikolajkie & L. Sniardwy, Poland (Kosicki, 1960); Lac d'Aydat, Massif Central, France (Oulad Ali *et al.*, 1990); Romania (Rudescu, 1960); All over Europe. Cosmopolitan (Bērziņš, 1982); "Grote vijver" fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1986); "Kleine vijver fort 8, Hoboken (Antw., B.) (De Smet *et al.*, 1989); Moat of fort Merksem (Antwerp, Belgium) (De Smet *et al.*, 1987); Kiev Reservoir, R.F. (Polishchuk, 1987); Mologa river, R.F. (Riv'yer *et al.*, 1981); Lake Pluszsee, N Germany (Hofmann, 1975); Lac Pavin & Lac de Tazenat, Massif Central, Fr. (Lair, 1975); Southwest islands of Japan (Sudzuki *et al.*, 1992); Side-arm of r. Danube near Bratislava, CSR (Lichardova, 1964); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Spain: Lerida (Velasco, 1990); Lake Biwa-ko, Japan (Yamamoto, 1960b); Lake Glubokoe, near Moscow, R.F. (Matveeva, 1986 & 1991); Japanese inland waters (Yamamoto, 1960a); Habay-la-Neuve, Belgium (De Ridder, 1986); Lake Konstanz, Germany (Walz *et al.*, 1987); River Danube (Enaceanu & Brezeanu, 1970); Ellesmere district, UK (Galliford, 1960a); District Ardennen, Belgium (Gijssels *et al.*, 1976); Impoundment Weidatasperre, W Thüringen, G. (Hoffmann, 1966); New impoundment in the CSR (Kubicek, 1968); Lake Zürichsee, CH (Nipkow, 1961); Lake Erken, Sweden (Nauwerck, 1963); Lac d' Aydat & Lac Pavin, Puy-de-Dôme, Fr. (Persoone *et al.*, 1968); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Lake Pulvermaar, Eifel, Germany (Oehms & Seitz, 1992); Etang de la Tour, Paris suburb, France (Pourriot, 1965); Serbian section of river Danube (Zivkovic, 1987); Lake Stechlinsee, N Brandenburg, Germany (Ronneberger & Schönborn, 1985)

- Nearctic region: Canada (Chengalath, 1977); Ontario, Canada (Chengalath & Fernando, 1973); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Colorado, USA (Turner, 1988); Acid lakes in Maine, USA (Brett, 1989); Arctic N America (Chengalath & Koste, 1989); Lake 382, exp. Lake Area, NW Ontario, Canada (Malley & Chang, 1991); Northern Michigan inland lakes (Stemberger, 1990); Ontario, Canada (Chengalath *et al.*, 1971); Deep inland lakes of N lower Michigan (Stemberger, 1979); Lakes in the Churchill Falls area, Labrador, Can. (Duthie & Ostrovsky, 1974)

- Oriental region: Sri Lanka (Fernando, 1980a); Indonesia & Sri Lanka (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Sri Lanka. Fairly common. Found in ponds, lakes and rice fields (Chengalath, Fernando & Koste, 1973); West Bengal, NE India (Sharma, 1979b); Malacca peninsula (Dunn, 1970)

- Australian region: Tasmania (Koste & Shiel, 1987); Qld, S Aust. & Vic. (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); E Australia (Koste & Shiel, 1980b); Sidney reservoirs, NSW, Aust. (Thomasson, 1973); Murray river at Mannum, S Aust. (Shiel, 1979)

- Neotropical region: River Parana, Argentina (Paggi & José de Paggi, 1974); Santa Fé river, Argentina (José de Paggi, 1976b); Argentina, Chile, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste, Robertson & Hardy, 1984); Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente & Costa (Koste & Böttger, 1992); Near Concepcion, Paraguay (Koste, 1986b); Orinoco river basin, Venezuela (Vasquez, 1984a); Chilean lakes (Schmid-Araya, 1991); Prov. Santa Fé, Argentina (José de Paggi, 1990); Costa Rica (Collado *et al.*, 1984); Mato Grosso, Brazil (Turner & Da Silva, 1992)

- Palaearctic region: C & S Sweden (Bērziņš & Pejler, 1987, 1989a, 1989b, 1989c & 1989d); Lago Maggiore, Italy (Tonolli, 1962; Goldman *et al.*, 1968; de Bernardi *et al.*, 1988); Mesotrophic waters in E Poland (Radwan & Popiolek, 1989); Carp ponds in S Poland (Zurek, 1980); Lake Balaton, Hungary (Zankai & Ponyi, 1970 & 1971a; Zankai, 1984 & 1989); Lake Sempachersee, CH (Zimmermann, 1974); Lake Biwa, Japan (Yamamoto, 1967 & 1968); Darnsee near Epe, NW Germany (Koste, 1962); Lake Bodensee, Germany (Walz, 1986); Small lakes in Estonia (Haberman & Mäemets, 1985); Lake Lunzersee, Austria (Ruttner-Kolisko & Malicky, 1988; Ruttner-Kolisko 1977a, 1977b & 1977c); Lake Bielersee, CH (Bernier-Fankhauser, 1983, 1986 & 1987; Baugerter *et al.*, 1980); Lake Glubokoje, near Moscow, R.F. Ghilarov, 1967; Matveeva, 1983, 1986 & 1991); Small lake in SW Sweden (Stenson, 1982); Grasmere Lake, Lake District, UK (Elliott, 1977); 2 lakes in N Sweden (Axelson, 1961); L. Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); L. Mikolajskie & L. Taltowisko, *ibid.* (Klimowicz, 1972); Impoundment Kninicki, CSR & r. Svatka, near it (Kubicek, 1964); Lake Mälaren, Sweden (Lanner & Pejler, 1973); L. Blankvatn, near Oslo, Norway (Larsson, 1971); L. Breedewater (Voorne) & Vogelmeer near Ymuiden, NL (Leentvaar, 1963b); Lake Laarder Wasmear, Gooi, NL (Leentvaar, 1963c); Nat. Res. Neeruti Lakes, NW Estonia (Mäemets A & A, *s.d.*); Alpine lakes in the Pyrenees (Miracle, 1978); Lakes in C Sweden (Pejler, 1965); C Sweden (Pejler, 1972); Lake Bodensee near Konstanz (Koch-Althaus, 1962); Lake Myvatn, Iceland

(Adalsteinsson, 1974 & 1979); Lake Giulianello, Latium, Italy (Ferrara & Margaritora, 1979); Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963); Impoundments Saidenbach & Neunzehnhain, G. (Althaus, 1976); Lake of Marmara, Turkey (Ustaoglu, in press); N, W & C Iceland (De Ridder, 1970 & 1972); Lac Léman, Fr./CH (Martin, 1961; Gawler *et al.*, 1988; Balvay, 1989; Balvay & Laurent, 1981, 1989, 1990a & 1990b); Lake Aydat, Massif Central, France (Lair, 1990 & 1992; Lair & Ayadi, 1989; Oulad Ali *et al.*, 1990); Lac de Nantua, Ain, France (Balvay, 1985); Lake Mossø, DK (Jørgensen *et al.*, 1983); River Svatka, CSR (Kubicek, 1968); Leczna-Wlodawa Lake District, R.F. (Radwan, 1984; Kowalczyk & Radwan, 1982); In acid ponds in Lower Austria (Wawrik, 1972); Japanese inland waters (Yamamoto, 1960a); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach & its tributaries, Austria (Donner, 1970); Impoundment Riveris, near Trier, Germany (Schnitzler, 1971); Lake Lauerzersee, CH (Odermatt, 1970); Lakes in NE Norway (Saeter, 1971); Lake Konstanz (Kiefer, 1968); L. Aumar & L. Aubert, Pyrénées C., France (Rey, 1988a); Lac Pavin, Massif Central, France (Omaly, 1968); Impoundment Helme near Kelbra, Kyffhäuser, Germany (Heynig, 1974); In the pelagic zone of Lake Novel, Ukraina (Polishchuk, 1991); Reservoirs Hubenov & Vrelisce, CSR (Hrbacek *et al.*, 1986); Highly eutrophic lake Czarna Kuta, Poland (Brinska *et al.*, 1976); Loosdrecht Lakes, NL (Van Tongeren *et al.*, 1992); Waldviertel area, Lower Austria (Naidenow & Wawrik, 1984); Loenerveense polder area; Brabantse Biesbosch; Bergvennen, Twente; L. Barlose Kolk; L. Naardermeer; Ooypolder area; Lakes in NW Overijssel; Dune lakes Quackjeswater, Breedewater & Vogelmeer, Voorne; L. Zwanewater near Callantsoog; L. Zuidelijke Vechtplassen; L. Wijde blik & Westeinder, Drente; Loosdrecht Lakes & Laarder Wasmeer, NL (Dresscher, 1976); Carp nursery ponds in the S Urals (Lybimova, 1974); Fish-fattening ponds in the Ukraina, R.F. (Krazhan *et al.*, 1976); Lake Lagoda, R.F. (Nikolayev & Petrova, 1978); Lake Kisegach, S Ural, R.F. (Drabkova *et al.*, 1976); Lapland State Preserve, R.F. (Ghilarov, 1972); Kolyrna Indigirka taiga lakes, R.F. (Kirillova & Sokolova, 1972); Oligotrophic lakes in NW R.F. (Salazkin, 1971); All over Europe. Cosmopolitan (Bērziņš, 1978); Lake Konstanz, Germ./CH (Walz *et al.*, 1987; Stich, 1991); Lake Pluszsee, N Germany (Hofmann, 1972 & 1985; Hofmann & Krambeck, 1991); River Vilyny, R.F. (Sokolova, 1986); Volgograd reservoir, R.F. (V'yushkova, 1985); L. Ozohohina, Indigirka basin, R.F. (Vinglinsky *et al.*, 1985); Lake Monterosi, Latium, Italy (Stella & Margaritora, 1966); Lake Gjersøen, S Norway (Faafeng & Nilssen, 1981); L. Mikolajskie & L. Taltowisko, Poland (Gliwicz, 1978); Rheinisches Braunkohlrevier near Zülpich, G. (Küsters *et al.*, 1975); Lac Pavin & Lac de Tazenat, Massif Central, Fr. (Lair, 1975); Lake Baikal, R.F. (Kutikova, 1975); Experimental fish Culture Station in Golysz, catchment area of the Upper Vistula r., Poland (Lemkowicz, 1984); Lakes in the Kuokkel area, N Swedish Lapland (Persson, 1978); Lake Piaseczno, E Poland (Radwan *et al.*, 1984); Impoundment Pastviny, E Bohemia, CSR (Sladeczek & Fiola, 1961); Lac Pavin, Massif Central, France (Dévaux, 1980); O Gochi Reservoir, NW Tokyo, Japan (Urabe, 1990); Rügener, Hiddenseer & Darsser Boddengewässer, NE Germany (Schwarz, 1963); Lake Balaton, Hungary (Zankai, 1968); Small lakes SE of Gothenburg, W Sweden (Morling & Pejler, 1990); Lake Donk, Overmere, Belgium (Martens, 1985; Roche, 1989); Gulf of Bothnia, Gulf of Finland (Bērziņš, 1960); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pond in the Sologne, France (Pourriot, 1965); Fens in Genk, Belgium (Schepens, 1960); Tarn in Värmland, Sweden (Thomasson, 1970); Pool S of Trondheim, Norway (Thomasson, 1979); Serbian section of river Danube (Zivkovic, 1987); L. Stechlinsee, N Brandenburg, Germany (Ronneberger & Schönborn, 1985); Spain: Gerona, Lerida & Zamora (Velasco, 1990); Experimental ponds at Golysz, Poland (Zürek, 1974); Lake Biwa-ko, Japan (Yamamoto, 1960b); Waters near Bodrog, NE Hungary (Dévai *et al.*, 1972-1973); Lake Tyrifjord, Norway (Langeland, 1974); Alpha-mesotrophic Piaseczno Lake, Poland (Brzek *et al.*, 1975); Lake Laacher See, Eifel, Germany (Eckartz-Nolden & Nolden, 1992); River Danube (Enaceanu & Brezeanu, 1970); River Elbe estuary, Germany (Schulz, 1961); Bolshoe Lake, White Sea (Ghilarov, 1965); Ellesmere district, UK (Galliford, 1960a); Knowsly Park, Liverpool, UK (Galliford, 1964); District Hoge Venen, Belgium (Gijssels *et al.*, 1976); Lake Hecklan, C Sweden (Olsson *et al.*, 1992); Lac Luitel, Isère, France (Joly, 1960); Impoundment Weidatalsperre, E Thüringen, Germany (Hoffmann, 1966); New impoundments in the CSR (Kubicek, 1968); River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Canal of river Odra, Poland (Klimowicz, 1979); Lac de Tazenat, Massif Central, France (Lair & Restituto, 1976); Lac de la Crégut & L. de Laspialade, Cantal, Fr. (Omaly, 1970); Lake Baikal, R.F. (Kozhov, 1963); Ponds at Mirwart, Belgium (Marlier & Wattiez, 1977); Lake Zürichsee, CH (Nipkow, 1961); Lake Erken, Sweden (Nauwerck, 1963); Karelian inland waters, R.F. (Kutikova, 1965); 6 lakes in the Puy-de-Dôme, France (Persoone *et al.*, 1968); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Lake Ösbysjön, near Stockholm, Sweden (Pejler, 1961); Lakes in C Sweden (Pejler, 1964); Lac d'Annecy, France (Balvay & Druart, 1992); Lac Pavin, Massif Central, France (Restituto & Lair, 1976); Ponds of Oltina, SE Drobogea, Romania (Popescu-Gorj & Costea, 1961); Lac Léman, Fr./CH (Rougier, 1969); Rés. biol. de Villars-la-Dombes, France (Rostan, 1976); 3 lakes of Sosnowickie, Poland (Radwan, 1969); Gemündener Maar, Weinfelder Maar & Pulvermaar, Eifel, Germany (Oehms & Seitz, 1992); Hamburg area, Germany (Rühmann, 1961); River

Alster in Hamburg, Germany (Rühmann, 1967); Impoundment Saidenbach, Erzgebirge, Germany (Beuschold, 1961); Lakes in S Sweden (Arnemo *et al.*, 1968); Heiluntian province, China (Bogoslowski, 1962); Asiatic Turkey (Dumont & De Ridder, 1987); Alpine lakes in the Sierra Nevada, Spain (Morales-Baquero, 1987); Lake Königssee, Bavaria (Laxhuber, 1987); Loch Leven, Scotland (May, 1986 & 1987); District Ostrava, CSR (Dvorakova, 1960b); Lake Mindelsee (Bodensee) (Einsle, 1977); C Finland (Eloranta, 1982b); Lake Bolsena, L. Bracciano & L. Vico, C Italy (Ferrari, 1972); Bamberg-Höchststadt area, Germany (Halbach, 1973); Afghanistan (Bērziņš, 1961); Tingvall Loch, Mainland, Shetland (Bērziņš, 1982a); Monsa, Shetland (De Smet *et al.*, 1988); Reservoirs in Spain (Guiset, 1977); Lakes in Estonia (Haberman, 1978; Mäemets, 1983); Jotunheimen, Nordish high mountain (Blakar & Jacobsen, 1979); Coast of S Finland (Eriksen, 1969); Cerdanya, E part of the Pyrenees, Spain (Miracle, 1981); Lake Ormijärvi, S Finland (Cajander, 1983); Large lakes in Estonia (Haberman, 1983); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); Romania (Rudescu, 1960); Engelbergs Moor, near Druchhorn, NW Germ. (Grönberg, 1975); Lake Erken & Lake Mälaren, Sweden (Blomquist & Pejler, 1980); River Elbe near Hamburg, Germany (Caspers & Schulz, 1964); Volga river, R.F. (V'yushkova & Lakhnova, 1974); Soviet Karelia, R.F. (Filimonova, 1976); Baraque Michel & Mirwart, Belgium (De Ridder, 1986); Lake Neujahsloch, Hessen, Germany (Menzel, 1968)

- Nearctic region: Colorado, USA (Turner, 1988); Acid lakes in Maine, USA (Brett, 1989); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Norwich, Vermont, USA (Bogdan & Gilbert, 1987); Newfoundland, Canada (Campbell & Knoechel, 1988); Hogans ponds, Newfoundland, Canada (Davis, 1972); Lancaster Lake, Michigan, USA (Fairchild *et al.*, 1977); Lake Michigan, USA (Stemberger & Evans, 1984); Lake Michigan & Milwaukee Harbor, USA (Stemberger, 1974); Mirror Lake, New Hampshire, USA (Makarewicz & Likens, 1979); Redrock L., Shadow mountain r. & Trapper's L., Colorado (Pennak, 1966); Pools and lakes near Hanover, N Hampshire, USA (Gilbert, 1988); River Ocqueoc, Michigan, USA (Beach, 1960); Fayetteville Green Lake, NY, USA (Culver & Brunskill, 1969); Canada (Chengalath, 1977); Ontario, Canada (Chengalath & Fernando, 1973); NE Canada (Newfoundland & Labrador) (Chengalath & Koste, 1983); ? Laguna del Tesoro, Cuba (Alonso, 1989); NW Canada (Chengalath & Koste, 1987); Lake O'Woods, Preston Co, Pa, USA (Havens & Da Costa, 1989); Lake Washington (Seattle?) (Edmonson & Litt, 1987); Hellerton res., Northampton Co, Pa, USA (Williamson *et al.*, 1989); Near Kingston, Ontario, Canada (Bērziņš, 1961); Illinois, USA (Bērziņš, 1984); Lake Wabamun, Alberta, Canada (Horkan *et al.*, 1977); Reservoir near Aiken, S Carolina, USA (Frost & Montz, 1988); Ross Lake, Florida, USA (Bienert, 1986); Little Rock Lake, Wisconsin, USA (Taylor & Mahonney, 1988); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Lake Huron, USA (Stemberger & Gannon, 1977); Laurentian Great Lakes (Stemberger, 1979); Lakes in Florida (Dawes *et al.*, 1987); Hogans Pond, Newfoundland, Canada (Davis, 1972); Long Lake, N Canada (Moore, 1980); Lake Ontario, Canada (Nauwerck, 1978); Northern Ontario Lakes, Canada (Roff & Kwiatkowski, 1977); James bay area, Canada (Pinel-Alloul *et al.*, 1979); River Opinaca & Small Opinaca, James Bay area, N Québec, Canada (Armengol *et al.*, 1983); Corner Lake & Bay Lake, Florida, USA (Elmore *et al.*, 1984); Near Monroe, Louisiana, USA (Gallagher, 1966); Bauline Long Pond, Newfoundland, Canada (Davis, 1973); Lakes in the Churchill Falls area, Labrador, Can. (Duthie & Ostrovsky, 1974); Mirror Lake, New Hampshire, USA (Likens & Gilbert, 1970; Makarewicz & Likens, 1975); Carter L., Brainard L., Redrock L., Long L. & Lake Isabelle, N Colorado, USA (Thomasson, 1964b); Jackson L., Yellowstone L., Two Medicine L., Waterton L., Grizzly L., Rock Isle L., L. Louise & L. Jasper, N W America (Thomasson, 1962); L. Waccama, N Carolina, USA (Thomasson, 1963a); Lake 122 & Lake 132, NW Ontario, Canada (Schindler & Novén, 1971); Mowich Lake, Mt. Rainier Nat. Park, Washington St., USA (Larson, 1973); Crecy Lake, New Brunswick, Canada (Smith, 1969); 18 arctic & subarctic lakes in Canada (Moore, 1978); Alberta, Canada (Anderson, 1980); Lake Michigan, USA (Sandgren & Lehman, 1990); Lake Weir, N C Florida, USA (Beaver & Crisman, 1990); Lake 382, exper. Lake Area, NW Ontario, Canada (Malley & Chang, 1991); Labrador lakes, Canada (Davis, 1978); Paradise Lake, E Canada (George & Fernando, 1969); N American Great Lakes, USA (Gannon, 1981); Adirondack lakes, NY State, USA (Siegfried *et al.*, 1984 & 1989); Findley Lake, Washington, USA (Wissmar & Wetzell, 1978); Illinois river, USA (Brown *et al.*, 1989); Lakes in Newfoundland, Canada (Chengalath, 1983; Chengalath *et al.*, 1984); Ontario, Canada (Chengalath *et al.*, 1971); Greens Lake, Beaver Island, Michigan (Foran & King, 1982); Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Lac Echo, Québec, Canada (Nogrady, 1976); Bay of Quinte, L. Ontario, Canada (Nogrady, 1988); Mt. Tremblant prov. park, Québec, Canada (Nogrady, 1980); Lake Oglethorpe, NE Georgia, USA (Orcuit & Pace, 1984); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); Pleasant Lake, Merrimack, New Hampshire, USA (Wallace & Starkwaether, 1985)

- Oriental region: Sri Lanka (Fernando, 1980); Lake Parakrama, Sri Lanka (Fernando, 1984); Singapore & Malaysia (Karunakaran & Johnson, 1978); Thailand & Singapore (Sudzuki, 1989); W & E Malaysia &

Singapore (Fernando & Zankai, 1981); Sri Lanka. Rare. Found in ponds (Chengalath, Fernando & Koste, 1973); Thailand (Boonsom, 1984b)

- Australian region: Qld, Vic & S Australia (Shiel & Koste, 1979); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982); Tasmania (Koste & Shiel, 1987); L. Barrine & L. Eacham, tropical Qld crater lakes (Green, 1981); Lake Manapouri, South Island, New Zealand (Bērziņš, 1984); Reservoirs SE Aust. (Shiel *et al.*, 1987); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Billabongs & reservoirs of the Murray-Darling system (Shiel, 1986); Murray river at Mannum, S Aust (Shiel, 1979)

- Neotropical region: Araucarian lakes, E and W of the Andes, Chile (Thomasson, 1963b); River Santa Fé, Argentina (José de Paggi, 1976b); River Parana, Argentina (Paggi & José de Paggi, 1974; José de Paggi, 1985); Lake Llanquihuc, Chile (Camps *et al.*, 1988); S Brazil (Arcifa, 1984); Amazonia, Brazil (Thomasson, 1971; Koste, 1972f); Lago Paroni, Brazil (Koste, 1974a); Argentina, Brazil, Chile & Panama (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Chilean lakes (Schmid-Araya, 1991); Five reservoirs in the Tiete River, Sao Paulo State, Brazil (Tundisi *et al.*, 1991); Lake Todos los Santos, Chile (Campos *et al.*, 1990); Costa Rica (Collado *et al.*, 1984); Prov. Tierra del Fuego, Chubut, Rio Negro, Neuquen, Corrientes & Santa Fé, Argentina (José de Paggi, 1990); Prov. Tierra del Fuego, Neuquen & Rio Negro, Argentina (Olivier, 1965); Lake Ranco, Chile (Campos *et al.*, 1992); Chile (Löffler, 1962)

Conochilus spec.

- Palaearctic region: 2 lakes in N Karelia, R.F. (Vardapetyan, 1972); Lake Banyoles, NE Spain (Miracle, 1977); Spanish reservoirs (Guiset, 1977); River Loire, France (Lair *et al.*, 1978; Lair, 1980); Delta of river Danube, Romania (Godeanu & Zinevici, 1983; Zinevici & Teodorescu, 1990); Kyama-Ike, a coastal pond in Japan (Sudzuki & Fukuta, 1989); Ozero Ayatskoye reservoir, C Urals, R.F. (Kozlova, 1972); Lake Viksvatn, C Norway (Kokvik & Reinertsen, 1991); Kanev Reservoir, Dnieper, R.F. (Mogil'chenko, 1986); Impoundment in E Bohemia, CSR (Sladeczkova & Sladeczek, 1960); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Sava Lake, ex-Yugoslavia (Katafatic, 1978); L. ørre Heimdalsvatn, C Norway (Larsson, 1972); Lake Guilianello, Latium, Italy (Stella & Margaritora, 1972); Pool, S of Trondheim, Norway (Thomasson, 1979); Southwest islands of Japan (Sudzuki *et al.*, 1992); Backwater Labicko, Middle Elbe, CSR (Straskraba, 1965); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Uruba river system, White Sea basin, R.F. (Kruglova, 1991); River "Buiten Y" near Amsterdam; Brabantse Biesbosch; Lake Tjeukemeer, NL (Dresscher, 1976); Lakes N of Bucarest, Romania (Godeanu, 1969b); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1969b); River Loire in St. Laurentles-Eaux, France (Pourriot *et al.*, 1982); Middle course of river Loire, France (Lair & Sargos, 1981)

- Nearctic region: Lake Erie, Canada (Davis, 1969); Experim. ponds near Bakersfield, Kern Co, California (Hurlbert *et al.*, 1972); 12 large lakes in Saskatchewan, Canada (Rawson, 1960); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Desaulniers reservoir, Québec, Canada (Pinel-Alloul *et al.*, 1982); L. Whitney, Cumberland Island Nat. Seashore, USA (Stoneburger & Schmock, 1980); Hogans Pond, Newfoundland (Davis, 1972); Near Wilmer, B.C., Canada (Bērziņš, 1961); Little Rock Lake, Wisconsin (Frost & Monty, 1988); Lake St. George, Ontario, Canada (Stephenson *et al.*, 1984); Lake Oglethorpe, Georgia, USA (Sanders *et al.*, 1989); Patricia L. & Celestine L., in Jasper Nat. Park, Alberta, Canada (Anderson, 1970b); Beaverskin L., Kejumkujik Nat. Park, Nova Scotia, Canada (Blouin *et al.*, 1984); Green Bay, L. Michigan, USA (Richman *et al.*, 1984); Marion Lake, B.C., Canada (Wissman & Wetzel, 1978); Lake Mendota, Wisconsin, USA (Pedros-Alio & Brock, 1983)

- Oriental region: Taiwan (Zudzuki, 1991); Thailand (Boonsom, 1984b); Parakrama Samudra, Sri Lanka (Fernando & Rajapaksa, 1983); Dar Lake, Kashmir Himalaya Lake, India (Vass & Zutshi, 1983)

- Australian region: Thirlmere Lakes, NSW, Aust. (Horsfall *et al.*, 1988); Farm dams near Gloucester, NSW, Aust. (Sudzuki & Timms, 1980); Lake Judd, Tasmania (Sudzuki, 1967)

- Neotropical region: Southern Brazil (Arcifa, 1984); Broa Reservoir, Sao Carlos, Sao Paulo State, Brazil (Matsumara-Tundisi & Tundisi, 1976); Lake Izabal, Guatemala (Brinson & Nordlie, 1975); Lago Orsinera & L. Jobera, Orinoco floodplain lakes, Venezuela (Vasquez & Rey, 1992); Pond UCA, Nicaragua (Moreno *et al.*, 1992)

Cupelopagis Forbes, 1882

Cupelopagis vorax (Leidy, 1857)

- Palaearctic region: British Isles (Hollowday, 1988); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Italia & Romania (Koste, 1973a); Romania (Rudescu, 1960); Italy, C Eur. mountains & plains, Pontic prov., E Eur. plain, UK. Cosmopolitan (Bērziņš, 1978); Landelies, Belgium (Daems & Dumont, 1973; De Ridder,

1986); Dübener Heide, N Germany (Wulfert, 1961); Pond Botanical Garden, Gent, Belgium (Segers *et al.*, 1991b)

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Sawhill Ponds Nat. Preserve, Boulder Co, Colorado, USA (Butler, 1983); Mud Pond, New Hampshire, USA (Wallace, 1977a); Wisconsin, Connecticut & Pennsylvania, USA (Koste, 1973a); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: Singapore (Karunakaran & Johnson, 1978); Thailand, Malaysia, Singapore & Indonesia (Sudzuki, 1989); Java (Koste, 1973a); Bung-Parapet, C Thailand (Koste, 1975a)

- Australian region: Vic, Australia (Shiel & Koste, 1979); NW Aust.: Magela Creek floodplain (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Christchurch, New Zealand (Russell, 1960); New Zealand (Koste, 1973a)

- Neotropical region: Ecuador: Oriente (Koste & Böttger, 1989 & 1992); Brazil (Koste, 1973a); Lago Paroni, Brazil (Koste, 1974a); Varzea near Santarem, Brazil (Koste, 1974b); Brazil, Surinam, Panama (Koste & José de Paggi, 1982); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Near Concepcion, Paraguay (Koste, 1986b); Brokopondo Lake, Surinam (Leentvaar, 1989); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Cupelopagis spec.

- Oriental region: Taiwan. Warm water species (Sudzuki, 1991); Southwest islands of Japan (Sudzuki *et al.*, 1992)

Cyrtonia Rousselet, 1894

Cyrtonia tuba (Ehrenberg, 1834)

- Palaearctic region: Etang de Pommereau (Loir-et-Cher), France (Tassigny *et al.*, 1970); Near Kapusany, CSR (Dvorakova, 1960a); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); Romania (Rudescu, 1960); Cosmopolitan in small waters (Koste & Shiel, 1987b); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1968b); Achmer Grasmoor, NW Germany (Koste, 1968b); Peat bogs in the "Massif Central", France (Batut, 1965); Waters in Soviet Karelia, R.F. (Filimonova, 1976); Iberic peninsula, Alps, C Eur. mountains & plain, Hungarian plain, Pontic Province, Ireland & UK (Bērziņš, 1978); 3 lakes of Sosnowickie, Poland (Radwan, 1968 & 1969); Lakes of the Black Sea shore, Romania (Godeanu, 1970b); Lago Trasimeno, Italy (Taticchi, 1968); Water-courses in the Bucegi mountains, Rom. (Godeanu, 1963b); Marshy zones of the plateau Bucegi mts., Rom. (Godeanu, 1969a); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)

- Nearctic region: Canada (Chengalath, 1977); Kingston, Ontario, Canada (Nogrady, 1989); N America (Bērziņš, 1978)

- Oriental region: Delhi, India (Sarma, 1988)

- Australian region: Qld, Australia (Shiel & Koste, 1979)

- Neotropical region: Ecuador: Oriente & Costa (Koste & Böttger, 1989)

Dicranophorus Nitzsch, 1827*Dicranophorus aquilus* (Gosse, 1887)

- Nearctic region: Canada (Chengalath, 1977)
- Australian region: NSW, Australia (Koste & Shiel, 1980c)

Dicranophorus artamus Harring & Myers, 1928

- Palaearctic region: C Eur. plains (Bērziņš, 1978)
- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus artamus lepsi Rodewald, 1935

- Palaearctic region: Extremely common in Romania (Rudescu, 1960); Pontic province of Europe (Bērziņš, 1978)

Dicranophorus aspondus Harring & Myers, 1928

- Palaearctic region: C Eur. plains, UK (Bērziņš, 1978)
- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus biastis Harring & Myers, 1928

- Palaearctic region: Impoundment Neunzehnhain, Germany, first record for Europe (Althaus, 1976)
- Nearctic region: Lac Echo, Québec, Canada (Nogrady, 1976)

Dicranophorus bulgaricus Althaus, 1957

- Palaearctic region: Black Sea (Rudescu, 1961); Carpathes and Pontic province (Bērziņš, 1978)

Dicranophorus cambari Wulfert, 1957

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Dicranophorus capucinus Harring & Myers, 1928

- Palaearctic region: River Grabia basin, Poland (Pawlowski, 1960); Lake Balaton, Hungary (Zankai, 1968); C. Eur. plains & Baltic province (Bērziņš, 1978)
- Nearctic region: NE Canada (Chengalath & Koste, 1983)

Dicranophorus caudatus (Ehrenberg, 1834)

- Palaearctic region: Finland (Eriksen, 1969); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); All over Europe; Caspian area (Bērziņš, 1978); Romania (Rudescu, 1960); River Grabia basin, Poland (Pawlowski, 1960 & 1970); Lake Balaton, Hungary (Zankai, 1968); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Lake Neusiedlersee, Austria (Donner, 1979); Lobbes, Belgium (De Ridder, 1986); River Danube (Enaceanu & Brezeanu, 1970); Sambre river, Belgium (Dumont *et al.*, 1975); Small water bodies in the Mikolajskie area, Mazurian lakeland, Poland (Klimowicz, 1967); Karelian inland waters, R.F. (Kutikova, 1965); Pool in Fontainebleu Forest, Paris suburb., Fr. (Pourriot, 1976); In reed borders of the Danube delta, Romania (Rudescu, 1968); Middle course of river Loire, France (Lair & Sargos, 1981); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Pond in the Paris suburb, France (Pourriot, 1965); Serbian section of river Danube (Zivkovic, 1987)
- Nearctic region: Canada (Chengalath, 1977); Illinois, USA (Bērziņš, 1984); Kingston, Ontario, Canada (Nogrady, 1989); Laurentian Great Lakes (Stemberger, 1979)
- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia & Indonesia (Sudzuki, 1989)

- Australian region: Qld., Australia (Shiel & Koste, 1979)

- Neotropical region: Ecuador: Oriente & Costa (Koste & Böttger, 1989); Ecuador: Costa (Koste & Böttger, 1992); Near Panguana, Peru (Koste, 1988b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); ? Brokopondo Lake, Surinam (Leentvaar, 1979)

Dicranophorus caudatus braziliensis Koste, 1972

- Oriental region: Kalimantan (Borneo), Indonesia (Koste, 1988a)
- Neotropical region: Amazonia, Brazil (Koste, 1972f); Brazil (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Near Concepcion, Paraguay (Koste, 1986b); Orinoco river basin, Venezuela (Vasquez, 1984a)

Dicranophorus cernuus Harring & Myers, 1928

- Palaearctic region: Lake Stechlinsee, Brandenb., Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Grabia, Poland (Pawlowski, 1970)

Note: see also *D. rostratus* f. *cernuus*

Dicranophorus claviger (Hauer, 1965)

- Oriental region: W & E Malaysia & Singapore (Fernando & Zankai, 1981); Malaysia & Singapore (Sudzuki, 1989); ? Singapore (Sudzuki, 1991)
- Neotropical region: Amazonia, Brazil (Hauer, 1965a; Koste & José de Paggi, 1982); Venezuela (Pourriot

& Zoppi de Roa, 1981); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984)

Dicranophorus claviger australiensis Koste & Shiel, 1980

- Australian region: NT, Aust. (Koste & Shiel, 1980c); NW Aust.: Magela Creek territory (Koste, 1981b); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984)

Dicranophorus claviger venezuelensis Pourriot & Zoppi de Roa, 1981

- Neotropical region: Venezuela (Pourriot & Zoppi de Roa, 1981)

Dicranophorus colastes Harring & Myers, 1928

- Palaeartic region: C Eur. plains (Bērziņš, 1978)

Dicranophorus corystis Harring & Myers, 1928

- Palaeartic region: Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); Carpathes & C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978); NE Canada (Chengalath & Koste, 1983)

Dicranophorus difflugiarum (Pénard, 1914)

- Palaeartic region: Alps (Bērziņš, 1978); Lac Léman, Fr./CH (Balvay & Laurent, 1981)

Dicranophorus dolerus Harring & Myers, 1928

- Oriental region: Andhra Pradesh, S India (Dhanapathi, 1975); India (Sharma & Michael, 1980; Sudzuki, 1989)

- Neotropical region: Bealey, New Zealand (Russell, 1960)

Dicranophorus edestes Harring & Myers, 1928

- Palaeartic region: E & C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978); ? Kingston, Ontario, Canada (Nogrady, 1989)

Dicranophorus epicharis Harring & Myers, 1928

- Palaeartic region: L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); "Altes Land" near Hamburg, Germany (Caspers & Heckman, 1982); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); C & S Sweden (Bērziņš & Pejler, 1989a & 1989d); Alps, C Eur. mountains & plains, E Eur. plains, Baltic province, Boreal highlands, N Sweden, NW Russian taiga (Bērziņš, 1978); Balearic Archipelago, Spain (de Manuel *et al.*, 1992); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); R. Loire at St. Laurent-les-Eaux, France (Pourriot *et al.*, 1982); Tap water in Gent, Belgium (De Ridder, 1992); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Canada (Chengalath, 1977); Illinois, USA (Bērziņš, 1984); Arctic N America (Chengalath & Koste, 1989); N America (Bērziņš, 1978); Lac Echo, Québec, Canada (Nogrady, 1976)

- Oriental region: Reservoirs Ajwa & Prata-pura, near Baroda, & Nimeta waterworks, India (Wulfert, 1966); India (Sharma & Michael, 1980); Thailand, Malaysia, Indonesia, India (Sudzuki, 1989); Bung-Borapet, C Thailand (Koste, 1975a); Kalimantan (Borneo), Indonesia (Koste, 1988a); Asia (Bērziņš, 1978); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990); Ajwa reservoir, near Baroda, Gujarat, W India (Jayangaudar, 1980); Lake Ranu Lamongau, Indonesia (Green *et al.*, 1976)

- Australian region: NT, Aust.: Magela Creek floodplain (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985); S Tasmania; NT, Aust (Koste, Shiel & Tan, 1988)

- Neotropical region: Varzea near Santarem, Brazil (Koste, 1974b); Venezuela, Brazil, Antilles, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Near Panguana, Peru (Koste, 1988b); Near Concepcion, Paraguay (Koste 1986b); Carribean islands (Collado *et al.*, 1984); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979-1980); Antilles françaises (Pourriot, 1975); Lake Cocibolca, Nicaragua (Moreno *et al.*, 1992); Ecuador: Oriente (Koste & Böttger, 1989); Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1992)

Dicranophorus esox Hauer, 1938

- Palaeartic region: L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963); River Ybbarpsån, Sweden (Bērziņš, 1979); C Eur. plains (Bērziņš, 1978)

Dicranophorus facinus Harring & Myers, 1928

- Palaeartic region: C Eur. plain, Baltic province, Boreal highland, NW Russian taiga (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus forcipatus (O.F. Müller, 1786)

- Palaeartic region: "Altes Land" near Hamburg, Germany (Heckman, 1986); Finland (Eriksen, 1969) Slovenia, ex-Yugoslavia (Markic, 1983); Asiatic Turkey (Dumont & De Ridder, 1987); Croatia, ex-Yugoslavia (Erben, 1987); Nat. Res. Jursky Sur, CSR (Hudec, 1978); Lake Kisajno, Mazurian lakeland,

Poland (Klimowicz, 1964); Romania (Rudescu, 1960); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); River Hase, NW Germany (Koste, 1976b); Lake Dümmer, NW Germany (Koste & Poltz, 1984); Lake Alfsee, NW Germany (Koste & Poltz, 1987); All over Europe. Cosmopolitan (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); Lake Donk, Overmere, Belgium (Dumont, 1968b); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Southwest islands of Japan (Sudzuki *et al.*, 1992); Dübener Heide, N Germany (Wulfert, 1961); Peat bogs Chambedaze & La Godivelle, Puy-de-Dôme, France (Francez & Dévaux, 1985); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Shores of dammed or flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Salzach and its tributaries, Austria (Donner, 1970); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); Id.; grachten in Amsterdam; R. Maas, Rijn, Waal & Yssel; waterschap "De Alm", NL (Dresscher, 1976); Lake Neusiedlersee, Austria (Donner, 1972d & 1979); 3 localities in Belgium (De Ridder, 1986); Interstitial fauna of the Elbe estuary, Germ. (Riemann, 1966); River Danube (Enaceanu & Brezeanu, 1970); Peat bog Chambedaze, Puy-de-Dôme, Fr. (Francez, 1982 & 1984c); Peat bogs in the Auvergne, France (Francez, 1981); Canal Leeds-Liverpool, UK (Galliford, 1960b); Canal of river Odra, Poland (Klimowicz, 1979); Near waterworks at Okocim, Poland (Klimowicz, 1975); Small water bodies in the Mikolajskie aea, Poland (Klimowicz, 1967); Anatolia, Turkey (Segers *et al.*, 1992); Lac d'Annecy, France (Balvay & Druart, 1992); Black Sea (Rudescu, 1961); Pond Heinrichsweiher, Bonn, Germany (Reck, 1981); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Lago Trasimeno, Italy (Taticchi, 1968); Serbian section of river Danube (Zivkovic, 1987); Spain: Madrid (Velasco, 1990); Waterworks Traiskirchen, S of Vienna, Austria (Weninger, 1971); Waterworks Jungferneheide, Berlin, Germany (Ritterbusch, 1974)

- Nearctic region: Canada (Chengalath, 1977); NE Canada (Chengalath & Koste, 1983); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Laurentian Great Lakes (Stemberger, 1979)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989); Impoundment Kinda, C Burma (Koste & Tobias, 1990); West Bengal, NE India (Sharma, 1979b); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985)

- Australian region: NSW, Qld, Vic, Australia (Shiel & Koste, 1979); NW Aust.: Magela Creek Territory (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); Taieri Ferry, New Zealand (Russell, 1960)

- Neotropical region: Ecuador: Oriente, Sierra & Costa (Koste & Böttger, 1989); Ecuador: Oriente & Sierra (Koste & Böttger, 1992); Pescado, Canada Honda, Las Hermanas, Burgos, Luna, Giles & De la Cruz streams; Baradero & del Medio rivers: all in NW Buenos Aires Province, Argentina (Modenutti & Claps, 1988); Amazonia, Brazil (Koste, 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Paraguay, Brazil & Panama (Koste & José de Paggi, 1982); Tasmania (Koste & Shiel, 1986b); Lago Camaleão, Brazil (Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Near Panguana, Peru (Koste, 1988b); Near Concepcion, Paraguay (Koste 1986b); Panama (Collado *et al.*, 1984); Mato Grosso, Brazil (Turner & Da Silva, 1972)

Dicranophorus forcipatus (O.F. Müller.), f. *remanei* Wulfert, 1936

- Palaearctic region: C Eur. mountains & plains, E Eur. plains (Bērziņš, 1978)

Dicranophorus grandis (Ehrenberg, 1832)

- Palaearctic region: Finland (Eriksen, 1969); 3 localities in Belgium (De Ridder, 1986); River Danube (Enaceanu & Brezeanu, 1970); Romania (Rudescu, 1960); Lake Bodensee, near Konstanz (Althaus, 1962); Asiatic Turkey (Dumont & De Ridder, 1987); Croatia, ex-Yugoslavia (Erben, 1987); Hortobagy Nat. Park, Hungary (Forro & Ronkay, 1983); In activated sludge, Warsaw, Poland (Klimowicz, 1972b); All over Europe. Cosmopolitan (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968); River Grabia basin, Poland (Pawlowski, 1970); Dragon pond, Gyokusen-dô cave, Japan (Sudzuki & Hoyosama, 1991); Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960); R. Maas, Rijn, Waal & Yssel; Nat. Res. Oisterwijkse vennen, NL (Dresscher, 1976); Lakes of the Black Sea shore (Godeanu, 1970b); Anatolia, Turkey (Segers *et al.*, 1992); Karelian inland waters (Kutikova, 1965); Luga district of the Leningrad area, R.F. (Kutikova, 1962b); Tap water in Gent, Belgium (De Ridder, 1992); Pelagic zone of the Leczna-Wlodawa lake district, Poland (Radwan, 1975); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Garden ponds in Tokyo, Japan (Sudzuki, 1975); Serbian section of r. Danube (Zivkovic, 1987)

- Nearctic region: Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); NE Canada (Chengalath & Koste, 1983); Kingston, Ontario, Canada (Nogrady, 1989); Lakes at Santee, California, USA

(Nogrady, 1982); Mt. Tremblant prov. park, Québec, Canada (Nogrady, 1980); Laurentian Great Lakes (Stemberger, 1979)

- Australian region: Qld, Australia (Shiel & Koste, 1979); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); Christchurch, New Zealand (Russell, 1960)

- Neotropical region: Paraguay & Argentina (Koste & José de Paggi, 1982); Prov. Rio Negro & Santa Fé, Argentina (José de Paggi, 1990)

Dicranophorus halbachii Koste, 1981

- Australian region: NT, Aust.: Magela Creek area (Koste, 1981b); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985)

- Neotropical region: Near Concepcion, Paraguay (Koste, 1986b)

Dicranophorus haueri Harring & Myers, 1928

- Palaeartic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); C & S Sweden (Bērziņš & Pejler, 1989a, 1989b, 1989c & 1989d); Romania (Rudescu, 1960); C Eur. mountains & plains, Carpathes, E Eur. plains & Baltic province (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus hauerianus Wiszniewski, 1939

- Palaeartic region: Lake Balaton, Hungary (Zankai, 1989); Romania (Rudescu, 1960); C Eur. mountains & plains, Pontic prov., E Eur. plains (Bērziņš, 1978); Lake Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978); River Danube (Enaceanu & Brezeanu, 1970); Anatolia, Turkey (Segers *et al.*, 1992); Pelagic zone of the Leczna-Wlodowa lake district, Poland (Radwan, 1975)

- Australian region: Vic, Australia (Shiel & Koste, 1979); Tasmania (Koste & Shiel, 1987)

Dicranophorus hauerianus Wiszn., f. *brachygnathus* Wiszniewski, 1939

- Palaeartic region: C Eur. mountains & plains, E Eur. plains & Pontic province (Bērziņš, 1978); Romania (Rudescu, 1960); River Danube (Enaceanu & Brezeanu, 1970)

Dicranophorus hercules Wiszniewski, 1932

- Palaeartic region: River Vistula in the Warsaw area, Poland (Klimowicz, 1981); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Romania (Rudescu, 1960); W Balkan, C Eur. mountains & plains, E Eur. plains, Hungarian plain, Pontic province, Baltic province, NW Russian taiga (Bērziņš, 1978); River Grabia basin, Poland (Pawłowski, 1960); Lake Balaton, Hungary (Zankai, 1968); Interstitial fauna of the Elbe estuary, Germ. (Riemann, 1966); Lake Ohrid, Balkan peninsula (Stankovic, 1960); Luga district of Leningrad area, R.F. (Kutikova, 1962b); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lakes around mt. Fuji, Japan (Sudzuki, 1971b); Mt. Fuji area, Japan (Sudzuki, 1978a)

- Australian region: Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984); NT, Aust. (Shiel & Koste, 1985); NT Aust.: Magela Creek floodplain (Koste, 1981b)

- Neotropical region: Mato Grosso, Brazil (Turner & Da Silva, 1992); Ecuador: Sierra (Koste & Böttger, 1992)

Dicranophorus hercules Wiszniewski, f. *adentata* Wulfert, 1961

- Palaeartic region: Dübener Heide, N Germany (Wulfert, 1961); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); C Eur. plains (Bērziņš, 1978)

- Nearctic region: Mt. Tremblant prov. park, Québec, Canada (Nogrady, 1980)

Dicranophorus hercules Wiszniewski, f. *capucinoides* Wiszniewski, 1934

- Palaeartic region: Courland Spit, R.F. (Zhadin *et al.*, 1972); L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Italy, C & E European plains (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1968)

Dicranophorus hercules Wiszniewski, f. *intermedia* Wiszniewski, 1934

- Palaeartic region: Courland Spit, R.F. (Zhadin *et al.*, 1972); E Eur. plains (Bērziņš, 1978)

- Australian region: Tasmania (Koste & Shiel, 1987)

Dicranophorus isotheres Harring & Myers, 1928

- Palaeartic region: C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988)

Dicranophorus kostei Pourriot & Zoppi, 1981

- Oriental region: Singapore (Sudzuki, 1989)

- Neotropical region: Venezuela (Pourriot & Zoppi de Roa, 1981; Koste & José de Paggi, 1982)

Dicranophorus leptodon Wiszniewski, 1934

- Palaeartic region: Italy, Pontic province, C & E Eur. plains (Bērziņš, 1978); Romania (Rudescu, 1960); Lake Balaton, Hungary (Zankai, 1968)

Dicranophorus liepolti Donner, 1964

- Palaearctic region: In the periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); River Salzach and its tributaries, Austria (Donner, 1970); Alps (Bērziņš, 1978)

Dicranophorus longidactylus Fadeev, 1927

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1989)

- Neotropical region: Ecuador: Oriente (Koste & Böttger, 1989 & 1992)

Note: See also *Dicranophorus uncinatus* (Milne), f. *longidactylus* Fadeev, 1927

Dicranophorus luetkeni (Bergendal, 1892)

- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); Romania (Rudescu, 1960); Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Achmer Grasmoor, NW Germany (Koste, 1968b); River Hase, NW Germany (Koste, 1976b); Peat bogs in the "Massif Central", France (Batut, 1965); Almost all over Europe (Bērziņš, 1978); Romanian plain, ± 50 km W-NW of Bucarest (Botosaneanu & Negrea, 1961); River Grabia basin, Poland (Pawlowski, 1960); Lake Balaton, Hungary (Zankai, 1968); Peat bogs Chambedaze & La Godivelle, (Francez & Dévaux, 1985); Puy-de-Dôme, France (Francez, 1988); River Salzach and its tributaries, Austria (Donner, 1970); Dübener Heide, N Germany (Wulfert, 1960a); Prov. Drente; Nat. Res. "Het Hol" (Kortenhoeft); Grote Huisven in Oisterwijk, NL (Dresscher, 1976); Peat bog Chambedaze, Puy-de-Dôme, France (Francez, 1982 & 1987); Peat bogs in the Auvergne, France (Francez, 1981); Peat bog La Godivelle, Puy-de-Dôme, France (Francez, 1984c); Anatolia, Turkey (Segers *et al.*, 1992); In reed borders of the Danube delta, Romania (Rudescu, 1968); Peat bogs Poiana Stampei, Bukowina, Romania (Rudescu, 1966)

- Nearctic region: Mesotrophic fen in Newfoundland, Canada (Bateman & Davis, 1980); Arctic N America (Chengalath & Koste, 1989)

- Oriental region: West Bengal, NE India (Sharma, 1979b)

- Australian region: Vic, Australia (Shiel & Koste, 1979); S Tasmania & Vic, Aust. (Koste, Shiel & Tan, 1988)

- Neotropical region: Ecuador: Sierra (Koste & Böttger, 1989); Near Concepcion, Paraguay (Koste, 1986b); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Dicranophorus mesotis Harring & Myers, 1928

- Nearctic region: Laurentian Great Lakes (Stemberger, 1979)

Dicranophorus minutus Myers, 1937

- Palaearctic region: Lake Stråken, Aneboda, Sweden (Bērziņš, 1972); C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus myriophylli (Harring, 1913)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989)

Dicranophorus nikor Pawlowski, 1938

- Palaearctic region: Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Courland Spit, R.F. (Zhadin *et al.*, 1972); C & E Eur. plains (Bērziņš, 1978)

Note: see also *D. uncinatus* f. *nikor*

Dicranophorus permollis (Harring & Myers, 1928)

- Palaearctic region: C Eur. plains, UK, Boreal highlands (Bērziņš, 1978)

Dicranophorus permollis gigantea Dartnall & Hollowday, 1985

- Antarctic region: Antarctica (Dartnall & Hollowday, 1985)

Dicranophorus ponerus Harring & Myers, 1928

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus prionacis Harring & Myers, 1928

- Palaearctic region: Peat bog of Grandvaux, Sologne, France (Pourriot, 1965 & 1966); W Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus proclestes Harring & Myers, 1928

- Palaearctic region: Romania (Rudescu, 1960); Black Sea (Rudescu, 1961); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966); C Eur. mountains, Carpathes, Pontic province (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus robustus Harring & Myers, 1928

- Palaearctic region: L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); River Ybbarpsån, Sweden (Bērziņš, 1979); Coast of S Finland (Eriksen, 1969); S Sweden, Finland,

Germany, Poland, Hungary, R.F., Austria; lagoon on S coast of Caspian Sea (Koste, 1982a); Volga River, R.F. (V'yushkova & Lakhnova, 1974); Hungarian plain, C & E Eur. plains, N Sweden, NW Russian taiga (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1960b & 1961); Bog pond near Budapest, Hungary (Nogrady, 1962)

Note: an unnamed "var." in L. Wallsee & r. Lobau, Austrian Danube basin (Donner, 1978)

- Nearctic region: N America (Bērziņš, 1978); Canada (Chengalath, 1977; Koste, 1982a); Cap Breton Island, Nova Scotia, Canada (Chengalath & Koste, 1988); Arctic N America (Chengalath & Koste, 1989)

- Oriental region: Sri Lanka (Mendis & Fernando, 1962; Fernando, 1969 & 1980a); Philippines (Mamaril & Fernando, 1978); Malaysia, Sri Lanka, Philippines (Sudzuki, 1989); Sri Lanka. Rare; found in ponds and lakes (Chengalath, Fernando & Koste, 1973); Fishponds in Thailand (Boonsom, 1984a); Thailand (Boonsom, 1984b); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Impoundment Kinda, C Burma (Koste & Tobias, 1990); 2 Kumaun Himalayan lakes, UP, India (Sharma & Pant, 1984 & 1985)

- Australian region: SW Aust. (Koste, Shiel & Brock, 1983); Tasmania (Koste & Shiel, 1987); W Aust. (Koste, 1982a); Southwest W Aust. (Shiel & Koste, 1985)

- Neotropical region: Chile (Löffler, 1962; Koste & José de Paggi, 1982); Chilean lakes (Schmid-Araya, 1991); Costa Rica & Cuba (Collado *et al.*, 1984)

Dicranophorus robustus Haring & Myers, f. *europaeus* Wulfert, 1936

- Palaearctic region: L. Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Impoundment Neunzehnhain, Germany (Althaus, 1976); Skopun, Heimera Halsavath, Faröer (De Smet *et al.*, 1988); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); C Eur. mountains & plains, E Eur. plains, Baltic province & NW Russian taiga (Bērziņš, 1978); Luga district of the Leningrad area, R.F. (Kutikova, 1962b)

Dicranophorus robustus Haring & Myers, f. *minor* Bērziņš, 1949

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Dicranophorus rosa (Gosse, 1887)

- Palaearctic region: Romania (Rudescu, 1960); W & C Eur. mountains, Pontic province, W, C and E Eur. plains, UK (Bērziņš, 1978)

Dicranophorus rostratus (Dixon-Nuttall & Freeman, 1902)

- Palaearctic region: River Ybbarpsån, Sweden (Bērziņš, 1979); Alps, C Eur. mountains & plains, Pontic province, E Eur. plain, UK, NW Russian taiga (Bērziņš, 1978); Romania (Rudescu, 1960); Canals in Hran area, CSR (Terek, 1990c); R. Moldova, tributary to the Danube, Romania (Prunescu-Arion, 1968)

- Nearctic region: Canada (Chengalath, 1977); Arctic N America (Chengalath & Koste, 1989)

- Neotropical region: Ecuador: Oriente (Koste & Böttger, 1992)

Dicranophorus rostratus (Dixon-Nutt. & Freeman) f. *cernuus* Haring & Myers, 1928

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Note: see also *D. cernuus*

Dicranophorus saevus Haring & Myers, 1928

- Palaearctic region: Lake Balaton, Hungary (Zankai, 1968); C Eur. plains (Bērziņš, 1978)

- Nearctic region: Canada (Chengalath, 1977); N America (Bērziņš, 1978)

Dicranophorus scoticus Haring & Myers, 1928

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus sebastus (Haring & Myers, 1928)

- Neotropical region: Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990)

Dicranophorus secretus Donner, 1951

- Palaearctic region: River Hase, NW Germany (Koste, 1976b); Alps, C Eur. plains (Bērziņš, 1978); Tap water in Gent, Belgium (De Ridder, 1992); Peat bog Grandvaux, Paris suburb, France (Pourriot, 1965); Anatolia, Turkey (Segers *et al.*, 1992); In the periphyton of mosses and *Myriophyllum* in the Danube, and in some brooks of the Alps, Austria (Donner, 1964); Shores of dammed or flowing stretches of the Danube, at the German-Austrian border (Donner, 1972); River Salzach and its tributaries, Austria (Donner, 1970); River Danube (Enaceanu & Brezeanu, 1970)

- Nearctic region: N America (Bērziņš, 1978)

Dicranophorus semnus Haring & Myers, 1928

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Dicranophorus siedlecki Wiszniewski, 1953

- Palaearctic region: E Eur. plains (Bērziņš, 1978)

Dicranophorus sigmoides Wulfert, 1951

- Palaearctic region: Fen "Grote Huisven" in Oisterwijkse vennen, NL (Dresscher, 1976); C Eur. mountains and plains (Bērziņš, 1978)

***Dicranophorus spiculatus* Myers, 1938**

- Palaearctic region: With doubt in C Eur. plains and Baltic province (Bērziņš, 1978)

***Dicranophorus strigosus* Haring & Myers, 1928**

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

- Nearctic region: N America (Bērziņš, 1978)

***Dicranophorus tegillus* Haring & Myers, 1928**

- Nearctic region: Canada (Chengalath, 1977)

- Oriental region: India (Sharma & Michael, 1980; Sudzuki, 1989); Andhra Pradesh, S India (Dhanapati, 1975)

- Neotropical region: Costa Rica (Collado *et al.*, 1984)

***Dicranophorus thysanus* Haring & Myers, 1928**

- Nearctic region: NE Canada (Chengalath & Koste, 1983)

***Dicranophorus tripleuchlanoides* Sudzuki, 1989**

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1989; Sudzuki *et al.*, 1992)

- Oriental region: Singapore (Sudzuki, 1989 & 1991)

***Dicranophorus uncinatus* (Milne, 1886)**

- Palaearctic region: River Ybbarpsån, Sweden (Bērziņš, 1979); Afghanistan (Bērziņš, 1961); Finland (Eriksen, 1969); Delta of river Danube, Romania (Godeanu & Zinevici, 1983); C & S Sweden (Bērziņš & Pejler, 1989a & 1989d); Lake Kisajno, Mazurian lakeland, Poland (Klimowicz, 1964); Romania (Rudescu, 1960); Edgeøya, Svalbard (De Smet *et al.*, 1988b); Bjørnøya (Bear Island), Svalbard (De Smet, 1988); Mt. Hoverla, Maramarosch Alps, Hungary (Varga, 1962); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); River Hase, NW Germany (Koste, 1976b); All over Europe. Cosmopolitan (Bērziņš, 1978); Nat. Res. "Het Hol" & "Meyendel", NL (Dresscher, 1976); In periphyton of mosses and *Myriophyllum* in the Danube and in some brooks of the Alps, Austria (Donner, 1964); Shores of dammed or flowing stretches in the Danube, at the German-Austrian border (Donner, 1972); Lake Wallsee & r. Lobau, Austr. Danube basin (Donner, 1978); River Salzach and its tributaries, Austria (Donner, 1970); Lake Neusiedlersee, Austria (Donner, 1972d & 1979); River Danube (Enaceanu & Brezeanu, 1970); Peat bog Laptici, Bucegi mountains, Rom. (Godeanu, 1970); Bog pond near Budapest, Hungary (Nogrady, 1962); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); Serbian section of river Danube (Zivkovic, 1987); Hopen, Svalbard Archipelago (De Smet, 1990); River Grabia basin, Poland (Pawłowski, 1960); Lake Balaton, Hungary (Zankai, 1968)

- Oriental region: ? Ricefields in NE Thailand (Heckman, 1979)

- Neotropical region: Puerto Ingles, island Mas a Tierra, Chile (Donner, 1980)

- Antarctic region: Potter peninsula, Antarctica (José de Paggi, 1982 & 1986); Antarctica & Subantarctica (José de Paggi & Koste, 1984; Sudzuki, 1988b)

***Dicranophorus uncinatus* (Milne), f. *longidactylus* Fadeev, 1927**

- Palaearctic region: C Eur. mountains & plains, E Eur. plains (Bērziņš, 1978); Lake Balaton, Hungary (Zankai, 1989)

Note: See also *Dicranophorus longidactylus* Fadeev, 1927

***Dicranophorus uncinatus* (Milne), f. *nikor* Pawłowski, 1938**

- Palaearctic region: C & E Eur. plains (Bērziņš, 1978)

Note: see also *D. nikor* Pawłowski, 1938

***Dicranophorus wiszniewski* Wulfert**

- Palaearctic region: C Eur. mountains (Bērziņš, 1978)

Note: This record probably refers to *Encentrum wiszniewskii* Wulfert, 1939

***Dicranophorus* spec.**

- Palaearctic region: Danube delta, Romania (Popescu-Marinescu & Zinevici, 1967); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); "Altes Land" near Hamburg, Germany (Caspers & Heckman, 1981); River Ybbarpsån, Sweden (Bērziņš, 1979); Lake Numasawa, Japan (Sudzuki *et al.*, 1983); Koyama-Ike, a coastal pond in Japan (Sudzuki & Fukuta, 1989); Aral Sea spawning grounds, R.F. (Yerekeyev & Kazakhbeyev, 1972); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Praha, CSR (Sladeczek, 1968); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Southwest islands of Japan (Sudzuki *et al.*, 1992); Lake Wallsee & r. Lobau, Austr. Danube basin (Donner, 1978); In the lower Elbe, Germany (Grimm, 1968); Grachten Amsterdam; Lindevallei; Lake Slotterplas; Watergraafsmeer polder; Nat. Res. Meyendel; Gerritsflesch near Kootwijk, NL (Dresscher, 1976); Side-arm of r. Danube, near Bratislava, CSR (Lichardova, 1964); Rés. biol. deVillars-la-Dombes, France (Rostan, 1976); Middle

course of river Loire, France (Lair & Sargos, 1981); Iriomote island, Japan (Sudzuki, 1979); Fukushima Prefecture, Japan (Sudzuki, 1982); Periphytic biota in sewages & park waters, Japan (Sudzuki, 1981); Lakes around mt. Fuji (Sudzuki, 1971b); Mt. Fuji lava caves, Japan (Sudzuki, 1971a); Lago Trasemino, Italy (Taticchi, 1980)

- Nearctic region: Illinois, Kentucky & Missouri, USA (Bērziņš, 1984); Mirror Lake, New Hampshire, USA (Strayer, 1985); Fayetteville, Onondaga county, NY State (Jackson, 1991)

- Australian region: In many localities in Australia (Bērziņš, 1982); Lower river Murray, S Aust. (Shiel, Walker & Williams, 1982)

- Neotropical region: Galapagos Islands (De Smet, 1987 & 1989); River Parana, Argentina (José de Paggi, 1985); Argentina (Modenutti & Claps, 1988); Varzea near Santarem, Brazil (Koste, 1974b); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Near Panguana, Peru (Koste, 1988b); Pond in Esteli, Nicaragua (Moreno *et al.*, 1992); Mato Grosso, Brazil (Turner & Da Silva, 1992)

Dipleuchlanis de Beauchamp, 1910

Dipleuchlanis elegans (Wierzejski, 1893)

- Palaearctic region: C Eur mountains & plains (Bērziņš, 1978)

- Australian region: Lake Catani, mt. Buffalo, Vic, Aust (Bērziņš, 1982); Vic, Australia (Shiel & Koste, 1985)

- Neotropical region: River Parana, Argentina (Paggi & José de Paggi, 1974); Argentina (Koste & José de Paggi, 1982)

Dipleuchlanis propatula (Gosse, 1886)

- Palaearctic region: River Klyas'ma, R.F. (Bogoslowski, 1961); Lake Paeostomi, Georgia, R.F. (Haberman & Laugaste, 1982); Finland (Eriksen, 1969); Lake Võrtsjärv, Estonia (Kutikova & Haberman, 1986); Romania (Rudescu, 1960); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); Fishponds near Warsaw, Poland (Hillbricht-Ilkowska, 1964); Italy, Alps, C Eur. mountains & plains, Hungarian plain, Pontic province, UK, NW Russian taiga; Caspian area (Bērziņš, 1978); River Grabia basin, Poland (Pawlowski, 1968 & 1970); Obretin Lake, Danube delta, Romania (Neagu-Godeanu *et al.*, 1968); Southwest islands of Japan (Sudzuki *et al.*, 1992); River Svratka, CSR (Kubicek, 1968); Japanese inland waters (Yamamoto, 1960a); Nat. Res. Oisterwijkse vennen, NL (De Graaf, 1960; Dresscher, 1976); Lake Biwa-ko, Japan (Yamamoto, 1960b); Pelagic zone of Lake Nobel, Ukraine (Polishchuk, 1991); R. Eau Blanche in Aublain, Belgium (De Ridder, 1980 & 1986); Obretin embanked basin, Danube delta, Rom. (Godeanu *et al.*, 1973); Small water bodies in the Mikolajkie area, Poland (Klimowicz, 1967); Parczew area peat bogs, Poland (Radwan, 1974); River Volga, R.F. (Mordukhai-Boltovskoi, 1979); R. Sambre in Boussières-s-Sambre, Belgium (Waeyaert, 1972); Lago Trasimeno, Italy (Taticchi, 1968); Waters near river Bodrog, NE Hungary (Dévai *et al.*, 1972/1973)

- Nearctic region: Ross Lake, Florida, USA (Bienert, 1986); Arctic N America (Chengalath & Koste, 1989); Kingston, Ontario, Canada (Nogrady, 1989); Atchafalaya river basin, Louisiana, USA (Holland *et al.*, 1983); Walker Lake, Arizona, USA (Green, 1986)

- Oriental region: Ricefields in NE Thailand (Heckman, 1979); Swamp near Menggala, Sumatra (Bērziņš, 1982a); Kerala, S India (Nayar & Nair, 1969); Philippines (Mamaril & Fernando, 1978); Sri Lanka (Fernando, 1980a); Singapore & Malaysia (Karunakaran & Johnson, 1978); Taiwan (Sudzuki, 1988); Taiwan, Malaysia, Singapore, Indonesia, Sri Lanka, India & Philippines (Sudzuki, 1989); Kalimantan (Borneo), Indonesia (Koste, 1988a); Sri Lanka: fairly common in ponds (Chengalath, Fernando & Koste, 1973); Singapore & Taiwan. Warm waters (Sudzuki, 1991); Thailand (Boonsom, 1984b); W & E Malaysia & Singapore (Fernando & Zankai, 1981); West Bengal, NE India (Sharma, 1979a)

- Australian region: River Jarra, Aust. (Bērziņš, 1982); Australia (Koste & Shiel, 1989a); NT, Aust. (Koste & Shiel, 1980c); Alligator rivers area, NT, Aust. (Tait, Shiel & Koste, 1984)

- Neotropical region: Brokopondo Lake, Surinam (Leentvaar, 1979); Ecuador: Costa (Koste & Böttger, 1989); Ecuador: Oriente & Costa (Koste & Böttger, 1992); Santa Cruz, Galapagos Islands (Segers, 1991a); Antilles françaises (Pourriot, 1975); Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Surinam (Leentvaar, 1975); River Saladillo basin, Argentina (José de Paggi & Koste, 1988); Orinoco river basin, Venezuela (Vasquez, 1984a); Provinces in NW Argentina (José de Paggi, 1989); Amazonia, Brazil (Thomasson, 1971; Koste 1972f); Varzea near Santarem, Brazil (Koste, 1974b); Venezuela, Colombia, Brazil, Antilles, Surinam, Panama (Koste & José de Paggi, 1982); Lago Camaleão, Amazonia, Brazil (Koste & Robertson, 1983; Koste, Robertson & Hardy, 1984); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Island of Maraca, Roraima, Brazil (Koste & Robertson, 1990); Near Panguana, Peru (Koste, 1988b); Prov. Santiago & Santa Fé, Argentina (José de Paggi, 1990); Caribbean

islands, Cuba, Haiti, Panama & Trinidad (Collado *et al.*, 1984)

Dipleuchlanis propatula (Gosse), f. *macroductyla* Hauer, 1965

- Palaearctic region: Southwest islands of Japan (Sudzuki, 1990; Sudzuki *et al.*, 1992)
- Nearctic region: Illinois & Kentucky, USA (Bērziņš, 1984)
- Oriental region: Sri Lanka (Fernando, 1980a; Sudzuki, 1989); W & E Malaysia & Singapore (Fernando & Zankai, 1981); Sri Lanka: fairly common; found in small ponds (Chengalath, Fernando & Koste, 1973)
- Australian region: River Jarra, Aust. (Bērziņš, 1982); NW Aust.: Magela Creek territory (Koste, 1981b); Australia (Koste & Shiel, 1989a); Alligator rivers area, NT, Aust. (Koste & Shiel, 1983a; Tait, Shiel & Koste, 1984); NT & Vic, Aust. (Shiel & Koste, 1985)
- Neotropical region: Flooded savanna at Mantecal, Venezuela (Michelangelli *et al.*, 1979/1980); Rivers in the E plains of Venezuela (Sanchez *et al.*, 1985); Rio Nhamunda, Amazonia, Brazil (Brandorff, Koste & Smirnov, 1982); Orinoco river basin, Venezuela (Vasquez, 1984a); Caroni river basin, Venezuela (Vasquez, 1984b); Amazonia, Brazil (Hauer, 1965b; Thomasson, 1971; Koste, 1972f); Brazil, Venezuela, Panama (Koste & José de Paggi, 1982); Varzea near Santarem, Brazil (Koste, 1974b); Lake Owain, Rio Snia Missu, Mato Grosso, Brazil (Green, 1972)

Dipleuchlanis spec.

- Nearctic region: Lake Wabamun, Alberta, Canada (Gallup & Hickman, 1975)
- Oriental region: In ricefields of North Kriau, Perak, Malaysia (Verreth, 1990)
- Neotropical region: Amazonia, Brazil (Thomasson, 1971); Surinam (Leentvaar, 1975); Argentina (Modenutti & Claps, 1988)

Diplois Gosse, 1886

Diplois daviesiae Gosse, 1886

- Palaearctic region: Bog pond near Budapest (Nogrady, 1962); Almost all over Europe (Bērziņš, 1978); Romania (Rudescu, 1960); Impoundment Kninicki, CSR (Kubicek, 1964); Latorica, E Slovakia lowland, CSR (Terek, 1990a); Lakes Venematen, NL (Dresscher, 1976); River Danube (Enaceanu & Brezeanu, 1970); Lakes of the Black Sea shore (Godeanu, 1970b); Sinaia, S Carpathes, Romania (Rodewald-Rudescu & Godeanu, 1961); River Volga, R.F. (Mordukhai-Boltovskoi, 1979)
- Nearctic region: Canada (Chengalath, 1977); Kingston, Ontario, Canada (Nogrady, 1989)
- Australian region: Qld., Aust. (Shiel & Koste, 1979); Australia (Koste & Shiel, 1989a); Cust. Canterbury, New Zealand (Russell, 1960)

Diplois spec.

- Palaearctic region: Mt. Fuji area, Japan (Sudzuki, 1978a)
- Oriental region: India (Sudzuki, 1989); Nursery tank, Delhi, India (George, 1966)

Dispinthera Gosse, 1856

Dispinthera capsa Gosse, 1856

- Palaearctic region: C Eur. plains (Bērziņš, 1978)

Dorystoma Haring & Myers, 1922

Dorystoma caudata (Bilfinger, 1894)

- Palaearctic region: Romania (Rudescu, 1960); Lake Stechlinsee, N Brandenburg, Germany (Althaus, 1963; Ronneberger & Schönborn, 1985); Darnsee near Epe, NW Germany (Koste, 1962); Engelbergs Moor, near Druchhorn, NW Germ. (Koste, 1965); All over Europe (Bērziņš, 1978); Dübener Heide, N Germany (Wulfert, 1960b & 1961); Peat bogs Poiana Stampei, Bukowina, Rom. (Rudescu, 1966)
- Nearctic region: Kingston, Ontario, Canada (Nogrady, 1989)
- Australian region: SW Aust. (Koste, Shiel & Brock, 1983); Southwest W Aust. (Shiel & Brock, 1985); Single Aust. record: Yarnup Swamp, W Aust. (Koste & Shiel, 1991)

Dorystoma furcata Wulfert, 1939

- Palaearctic region: Dübener Heide, N Germany (Wulfert, 1960b); C Eur. mountains & plains (Bērziņš, 1978); Middle course of river Loire, France (Lair & Sargos, 1981); Periphytic biota in sewage and park waters, Japan (Sudzuki, 1981)

Dorystoma spec.

- Palaearctic region: Middle course of river Loire, France (Lair & Sargos, 1981); Periphytic biota in sewage & park waters, Japan (Sudzuki, 1981)

Drilophaga Vejdovsky, 1883*Drilophaga bucephalus* Vejdovsky, 1883

- Palaearctic region: NW Germany, CSR, Romania, R.F. (Koste, 1972d); River Hase, NW Germany (Koste, 1976b); Romania (Rudescu, 1960); C Eur. mountains, E & E Eur. plains, Carpathes (Bērziņš, 1978)

Drilophaga delagei de Beauchamp, 1904

- Palaearctic region: Romania (Rudescu, 1960); Pontic province, W & E Eur. plains (Bērziņš, 1978)

Drilophaga judayi Harring & Myers, 1922

- Palaearctic region: C Eur. mountains & plains (Bērziņš, 1978)